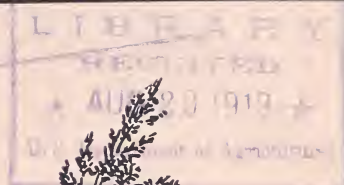


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Mc Cullough's Seed Catalogue AND AMATEUR'S GUIDE

The J.M.McCullough's Sons Co.

H.B. McCULLOUGH *Pres't.*

316 Walnut St.

Cincinnati, Ohio



PHONE MAIN 4598



Established 1838

INSTRUCTIONS TO PURCHASERS



Established 1838

WHEN ordering Beans, Corn or Peas to be forwarded by mail, "be sure to add 6c per pound for POSTAGE in first and second zones. For third zone add 7c per pound, for all other zones add extra postage in proportion. See Parcel Post Rates.

Packets and half pounds of Beans, Corn and Peas are sent postpaid at prices quoted, and all other varieties of vegetable and all Flower Seeds will be forwarded free by mail at Catalogue Prices unless otherwise noted. Grass Seeds; Clover Seeds; Miscellaneous Seeds; Plants; Tools and Supplies are not sent free by mail—see Parcel Post Rates.

Order Early. It will greatly facilitate shipments if orders are sent early. We aim to send off all orders the day received.

Send the Money with the Order. Postal Note, Postoffice Order, Registered Letter, Express Money Order, or Draft on Cincinnati or New York. United States Postage Stamps will be received for small amounts; be exceedingly careful about the least moisture getting on them when remitting, as they sometimes reach us so stuck together as to be almost worthless.

We do not send C. O. D. Everything being plainly priced, the return charges on money is an unnecessary expense.

Should you change your address, we will esteem it a favor if you will notify us, so we can forward our Catalogue with regularity; if you receive two Catalogues of the same kind, please hand one to some friend who has a garden.

Should an error occur, we desire to be promptly informed, and will take pleasure in making satisfactory corrections.

Write your Name and Address distinctly and in full; please use the Order Sheet and Envelope inserted in this Catalogue.

PARCEL POST RATES

All parcels of seeds, bulbs and plants, up to and including 8 oz. at the rate of 1c for each 2 oz. regardless of distance; over 8 oz., at the Zone Rate. All merchandise other than seeds, bulbs and plants up to and including 4 oz. in weight can be sent at the rate of 1c an ounce regardless of distance. Over 4 oz. at the Zone Rate.

NOTE:—On orders for one to three pounds of goods (larger quantities in proportion) not included in our free delivery, while the packing may only weigh the fraction of a pound it must be considered as a full pound when adding postage.

Limit of weight for delivery within local, first and second zones, 50 pounds; to all other zones, 20 pounds. If weight exceeds this we will pack in 2 or 3 parcels (no more) provided money is remitted to cover postage.

A fraction of a pound is considered a full pound.

Zone	First Pound	Each Additional Pound
1 and 2—150 miles.....	5c	1c
3—150 to 300 miles.....	6c	2c
4—300 to 600 miles.....	7c	4c
5—600 to 1,000 miles.....	8c	6c
6—1,000 to 1,400 miles.....	9c	8c
7—1,400 to 1,800 miles.....	11c	10c
8—all over 1,800 miles.....	12c	12c

Poisons cannot be sent by mail. Liquids and goods packed in glass should be sent by Express.

The J. M. McCullough's Sons Co., give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

Trade Marks Registered, McCullough's Seeds, XXXX, Buckeye, Suburban Lawn Grass, Central Park Lawn Grass

OWING to the scarcity of suitable qualities of paper when we began compiling our catalog, and wishing to co-operate with our government in the conservation of same, we decided to reduce the number of pages in our catalog to conform as nearly as possible to these requirements.

While it has been necessary to abbreviate many of the descriptions of the various Seeds and Supplies, the text has been preserved complete in nearly every instance.

With this explanation we enter upon the 81st year since the founding of our business by the late Mr. J. M. McCullough.

Inviting your continued patronage, we remain,

Yours truly,

THE J. M. McCULLOUGH'S SONS CO.

ORDER SHEET

[illegible]

1. The first part of the paper discusses the importance of understanding the cultural context of the research. It emphasizes that researchers must be aware of the values, beliefs, and customs of the community they are studying. This is particularly important in cross-cultural research, where differences in communication styles and social norms can lead to misunderstandings.

2. The second part of the paper focuses on the methodology used in the study. It describes the process of selecting participants, collecting data, and analyzing the results. The authors highlight the challenges of conducting research in a non-Western context, such as limited access to resources and the need for local expertise.

3. The third part of the paper presents the findings of the study. It shows that there are significant differences in the way that people in the community perceive and experience the phenomenon being studied. These findings have important implications for the development of interventions and policies that are culturally appropriate.

4. The final part of the paper discusses the limitations of the study and suggests areas for future research. The authors acknowledge that the study was limited by its sample size and the lack of a control group. They also suggest that future research should explore the role of other factors, such as education and income, in shaping the community's experiences.

McCULLOUGH'S "SUBURBAN" LAWN GRASS SEED



WILL MAKE A BETTER LAWN THAN TURF OR SOD

McCullough's "Suburban" Lawn Grass Seed

lawn is four bushels (64 lbs.) per acre, or for renovating old lawns, two bushels (32 lbs.) per acre. For a plot 15x20, or 300 square feet, one pound is required for a new lawn, or about one-half pound for renovating.

IS a mixture of the finest Dwarf Evergreen Grasses that grow and flourish during different months of the year so that a rich, deep green, velvety lawn is constantly maintained. Our mixture is the result of several years experimenting, and, as we now offer it, is unequalled. The quantity required for making a new lawn is four bushels (64 lbs.) per acre, or for renovating old lawns, two bushels (32 lbs.) per acre. For a plot 15x20, or 300 square feet, one pound is required for a new lawn, or about one-half pound for renovating.

If it is honestly made, a lawn seed mixture is very much to be preferred to any single grass, because the several varieties of grasses which compose it, mature at different seasons of the year, thus keeping the green sward in good color and condition during the hot weather, not losing its color, as the single variety is liable to do.

How to Make a Lawn.—The matchless beauty of a well kept lawn instantly commands the attention of all lovers of the beautiful in Nature, because a fine lawn is an unfailing mark of intelligence and taste, to obtain which the main point is to start right. Seed will make a better lawn than turf or sod. The best soil is a good medium texture; the surface should be thoroughly pulverized and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken; ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain. When the soil is firm, level and suitably moist, sow "Suburban" Lawn Grass Seed at the rate of four bushels (64 lbs.) per acre. It is unwise to be too economical in the quantity of seed used, if the best results are desired. The seed should be sown broadcast and as evenly as possible, then give a thorough rolling or pat well with the back of a spade. The seed must be well firmed in the soil. When the young grass attains a height of 4 or 5 inches, carefully mow with a sharp scythe. After this, according to the season, it should be mown with a lawn mower every week or ten days.

General Surface Renovating.—When your lawn has been established, you will find it to your advantage to lightly re-seed each season. As early as possible, carefully rake off all dead leaves, etc., and give the lawn a dressing of our pulverized SHEEP MANURE, or our PURE BONE MEAL at the rate of at least 500 pounds per acre, and rake in, after which sow our "Suburban" Lawn Grass Seed at the rate of two bushels (32 lbs.) to the acre; roll thoroughly or pat with the back of a spade.

Renovating in Spots or Patches.—Everyone is aware that even in the best-kept lawns unsightly spots devoid of grass will appear, which are caused by root-destroying insects; and as these spots are not protected by a covering of turf during the winter, as a natural consequence, the chemical elements in the soil are leached out by the action of the weather, causing them to "cake" or become hard early in the spring. It is useless and a waste of seed to sow these spots unless they are carefully prepared to receive the seed. For this purpose it is our practice to cover them with either of the fertilizers mentioned above at the rate of 13 lbs. for each 300 square feet, then dig these spots up, and after raking until no trace of the fertilizers can be seen, sow our "Suburban" Lawn Grass Seed at the rate of 1 lb. to each 300 square feet. Roll thoroughly or pat with the back of a spade. When any weeding is done on the lawn immediately drop a few grains of seed wherever a weed is removed, and while the soil is disturbed press the seed into the soil.

Prices:— $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 3 lbs., \$1.00; 5 lbs., \$1.50; $\frac{1}{2}$ bu. (8) lbs., \$2.15; per bu. of 16 lbs., \$4.00.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

NOTE:—The price of "Suburban" Lawn Grass Seed is based upon sixteen pounds to the bushel. We mention this because there is no standard weight per bushel for Lawn Grass Seed in the United States; those who prefer to buy by weight may base their calculations in this way.

Owing to the cleaning process that our "Suburban" Lawn Grass Seed is put through it will be found to contain a much larger per cent of actual seed and less chaff than ordinary Lawn Seed.

Pulverized Sheep Manure and Pure Bone Meal are the Best Fertilizers for Lawns. See Fertilizers.

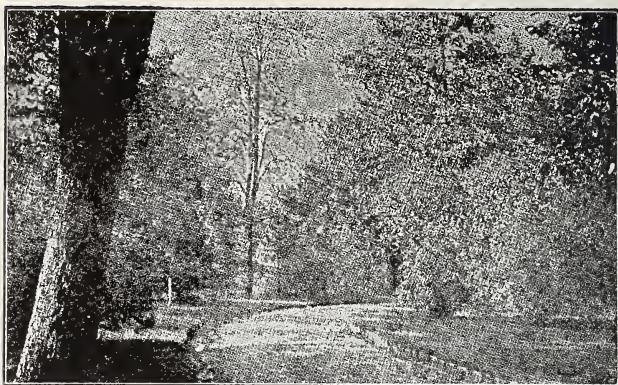
McCULLOUGH'S "SHADY-PLACE" LAWN GRASS SEED

ON nearly all lawns there are more or less shady places, which result in having bare and unsightly spots on which the owners have difficulty in securing a satisfactory stand of grass. After many years of experimenting with different grasses, both native and foreign, we several years ago developed our present "Shady Place" Lawn Grass Seed Mixture.

This mixture of grasses is adapted for such places, as it is composed of dwarf-growing grasses which are found naturally growing in shady locations. Should the ground have become "sour" or drainage defective, it is apt to be covered with moss. If such is the case, the moss should first be removed by the use of a sharp rake, then apply **Ever Green Lawn Lime** to sweeten it, and after another thorough raking, apply commercial Fertilizer at the rate of not less than 600 pounds per acre, then sow the seed at the rate of four bushels (64 lbs.) per acre, or 1 lb. to each 300 square feet, after which roll thoroughly.

Prices:— $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 5 lbs., \$1.75; 8 lbs., \$2.50; per bushel of 16 lbs., \$5.00.

Postage must be added if wanted by mail. See Postal Rates, second page of cover.



McCullough's Eden Park Lawn Grass Seed

TO supply the demand for a Lawn Grass Seed that will meet general requirements, it has become necessary to place on the market our "Eden Park." The quality of this lawn grass seed will compare favorably with a majority of the lawn grass mixtures on the market as it contains practically the same grasses as our "Suburban" but without reseedling.

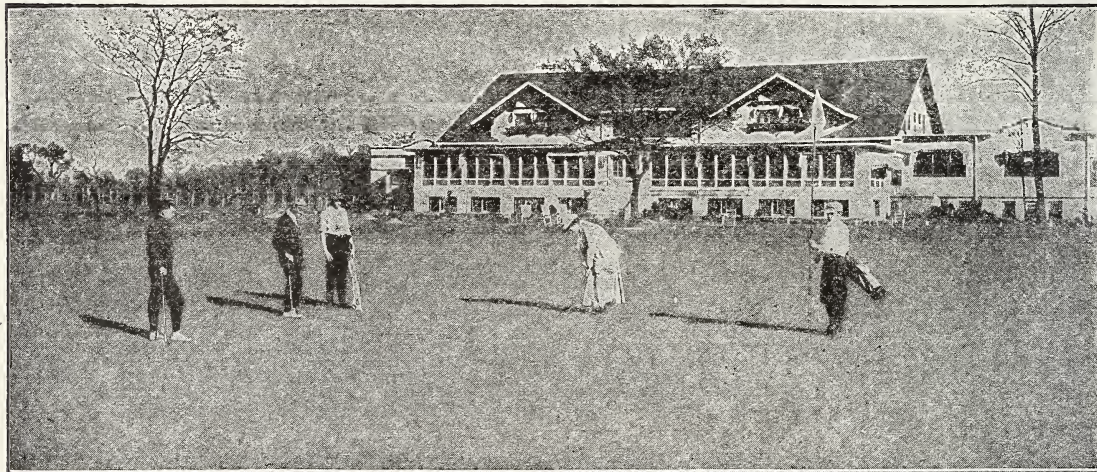
Prices. $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 5 lbs., \$1.00; 8 lbs., \$1.50; per bushel of 16 lbs., \$3.00.

TERRACE MIXTURE

There is nothing more annoying than to have ground washed out. In this mixture we have put quick-growing and deep-rooted grasses. Of course, it depends a great deal on this being well started before very heavy rains.

Per lb., 35c; 5 lbs., \$1.50; per bushel of 16 lbs., \$4.00.

Special Mixtures For Golf Links and Putting Greens



View of one of the Putting Greens on the Golf Grounds of the Hyde Park Country Club, Cincinnati, Ohio, where our **Putting Green Mixture** has produced a "Green" three weeks from time of sowing the seed.

PUTTING GREEN MIXTURE

HAVING specialized for over three-quarters of a Century in all varieties of Grass Seeds and having become familiar with the habits and characteristics of all cultivated grasses, we were prepared to develop the Mixture of Grasses herewith offered by us, after making a careful study of the requirements for producing the most substantial turf for Putting Greens.

The numerous testimonials we have received establishes the fact that our Mixture of Grasses will produce the results desired, because it has given thorough satisfaction wherever used, and produces a thick, tough, beautiful green turf. The varieties comprising this Mixture of Grasses are all the finest-bladed, low-growing and most hardy kinds, and will maintain their rich, velvety green color throughout the season.

Per lb., 40c; 5 lbs., \$1.75; per bushel of 16 lbs., \$5.00.

Quantity of Seed to Sow. One pound of these mixtures will sow 15 x 20 feet, or 300 square feet. Four bushels should be sown to the acre. For renovating use one-half of this quantity.

Pulverized Sheep Manure and Pure Bone Meal are the Best Fertilizers for Lawns. See Fertilizers.

We wish to emphasize the fact that one of the important essentials for success in building lawns, lies in the abundant use of Fertilizers, which should be applied at the rate of not less than 600 pounds per acre.

GOLF LINKS MIXTURE

WE have given much attention to grasses for golf links. The mixture of grasses we offer below is composed of such varieties as will thrive here, and are the result of experiments conducted on our grounds, as well as careful observation for several years of the practical results obtained on those golf links, for which we have supplied the seed. We have always on hand all the natural grasses of Europe and America and we are familiar with the habits and merits of each. We shall be glad to prescribe for whatever the requirements of the links may be; for poor lands or rich, high and dry, or low and wet.

Per lb., 25c; 5 lbs., \$1.00; 8 lbs., \$1.50; per bushel of 16 lbs., \$3.00.

Four bushels will sow 15 x 20 feet, or 300 square feet. Four bushels should be sown to the acre.

McCullough's

Founded 1838
Established 81 Years

Selected

VEGETABLE SEEDS for 1919

Our policy adopted many years ago of carefully eliminating all undesirable varieties of Garden Seeds has been an important factor in maintaining our high standard of quality for over three quarters of a century.

TRADE MARKS REGISTERED. MCCULLOUGH'S SEEDS, XXXX, BUCKEYE, SUBURBAN LAWN GRASS, CENTRAL PARK LAWN GRASS.

POSTAGE When ordering BEANS, CORN OR PEAS to be forwarded by mail be sure to add 6c per pound for POSTAGE in first and second zones. For third zone add 7c per pound; for all other zones add extra postage in proportion. See postal rates, second page of cover. Packets and half pounds of BEANS, CORN and PEAS and all other VEGETABLE SEEDS offered in PACKETS, OUNCES, QUARTER POUNDS and POUNDS are sent postpaid at prices quoted, except where otherwise noted.

ARTICHOKE

THE Globe Artichoke is cultivated for its flowerheads, which are cooked like Asparagus. Plants set in any good soil, with slight covering in winter, will remain in bearing several years. Seeds may be sown indoors and plants potted same as the Tomato, and set out in May, or can be sown in hills outside, and thinned out to one plant in hill.

Large Green Globe......Pkt., 10c; oz., \$1.00.

ASPARAGUS SEED

One Ounce Will Produce About 400 Plants.

SOW in rows 12 to 15 inches apart, as early in Spring as the ground is in fit condition; give good cultivation and thin the plants to stand 2 or 3 inches apart.

Argenteuil. This variety is largely grown in France for the Paris market.
Pkt., 5c; oz., 10c; ¼ lb., 30c.

Barr's Mammoth. A fine green variety...Pkt., 5c; oz., 10c; ¼ lb., 30c.

Columbian Mammoth White. Large, white stalks.
Pkt., 5c; oz., 10c; ¼ lb., 30c.

Conover's Colossal. Large and productive...Pkt., 6c; oz., 10c; ¼ lb., 30c.

Palmetto. An early, prolific and very desirable variety.
Pkt., 5c; oz., 10c; ¼ lb., 30c.

ASPARAGUS ROOTS

(See Plants and Roots, end of the Vegetable Seeds.)

BEANS Dwarf or Bush

One pound will plant 50 feet of drill—60 to 120 pounds per acre.

THE Bean is a very tender plant and should not be planted until there is no more danger of frost; still it often pays to take some risks. Plant in a warm, loamy soil at the beginning of warm weather in Spring and at intervals for succession until August. Rows may be made 2 feet apart and the beans planted 2 inches deep and a few inches apart in the rows, or 3 to 4 beans in hills 6 to 8 inches apart.

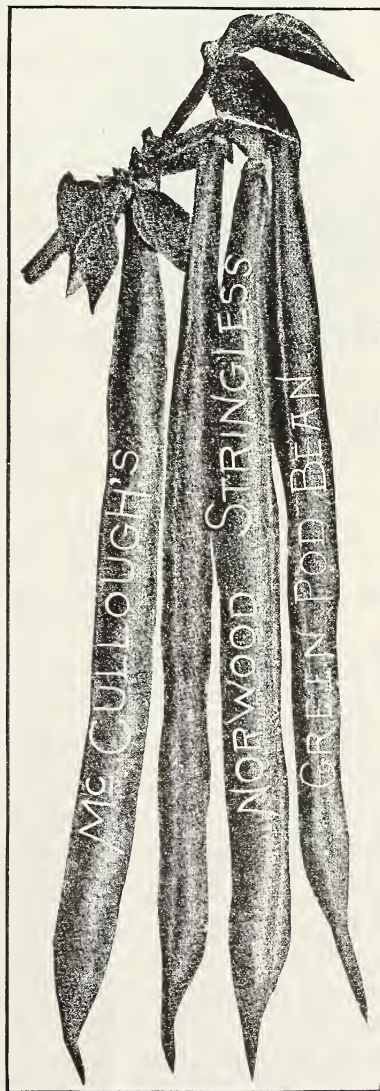
Cultivate and hoe frequently, always, however, when the vines are perfectly dry; working them when wet with rain or dew will cause them to rust and injure the crop. In hoeing, draw the soil up towards the plants. For string Beans gather the pods clean as soon as fit for use. The plants will remain all the longer in bearing.

All varieties of Beans, pkt. 10c. All packets and half pounds of Beans are sent postpaid; for larger quantities by mail, see "Postage" above.

Green-Podded Varieties

McCullough's Norwood Stringless Green Pod. This variety is superior to any other green-podded bean grown. It is positively stringless, and ripens a week earlier than the Valentine. The pods which are produced in abundance on the vines are long, straight, round, deeply saddle-backed, brittle, tender and of real good flavor. Has a much larger pod than the Valentine.Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

McCullough's Improved Round Pod Red Valentine. Our stock of this is extra choice. This variety is usually ready to pick in thirty-four days after planting. The pods are very thick and fleshy, of finest quality and unequalled in uniformity of ripening, which latter fact combined with its earliness, makes it one of the most profitable sorts for the gardener.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.



BEANS Dwarf or Bush Green Podded Varieties, Continued

All varieties of Beans, pkt., 10c. All packets and half pounds of Beans are sent postpaid, for larger quantities by mail, see "Postage" Page 3.

Black Valentine. Pods are extremely long, round and straight. Suitable for both early and late planting.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Bountiful. Pods are large, broad, fleshy and stringless.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Burpee's Stringless Green Pod. The pods are pale green, long and straight; perfectly round, meaty and entirely stringless.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Fordhook Favorite or White Seeded Stringless. Pods are light green, long, thick, brittle, and entirely stringless. Seed being white, can be used for dried beans in winter.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.60.

Improved Refugee, or Thousand to One. Medium or late variety; grown for pickling.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Tennessee Green Pod. Meaty flat pods of large size and good flavor; an excellent cropper on poor soil.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

DWARF SHELL BEANS

Horticultural Dwarf. Excellent as a shell bean either green or dry.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

White Kidney, or Royal Dwarf. A superior kind for baking, and is also excellent when shelled green.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 5 lbs., \$1.15; 15 lbs., \$3.25.

Red Kidney. Similar to White Kidney, except in color.
Pkt., 10c; ½ lb., 15c; 1 lb., 20c; 5 lbs., 90c; 15 lbs., \$2.50.

White Marrowfat. Grown as a dry bean for winter use; excellent shelled, either green or dry.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 5 lbs., \$1.15; 15 lbs., \$3.25.

Navy. The old standard sort for winter use.
Pkt., 10c; ½ lb., 15c; 1 lb., 20c; 5 lbs., 90c; 15 lbs., \$2.50.

BEANS Dwarf or Bush Wax or Yellow-Podded Varieties

All varieties of Beans, pkt. 10c. All packets and half pounds of Beans are sent postpaid, for larger quantities by mail see "Postage" Page 3.

Burpee's Kidney Wax. Pods are somewhat flattened in form, lemon-yellow in color; long and stringless.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.65.

Round Pod Kidney Wax. Pods of large size, long, round, and stringless.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.65.

Golden Wax, Improved. Pods long, straight and thick.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

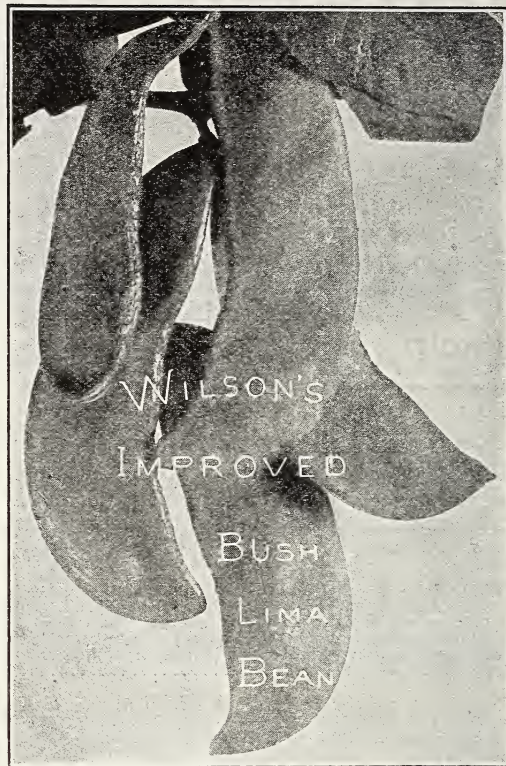
Davis' White Kidney Wax. White-seeded, rustless variety; long, flat pods.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Wardwell's Kidney Wax. The pods are long and showy, tender, and stringless.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.65.

Curries Rustproof Wax. Bear large crops of long, flat, light yellow pods.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Black Wax Improved. Pods round, meaty, brittle and deep golden yellow.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Black Wax Pencil Pod. Pods six to seven inches long, light golden yellow.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.



BEANS Dwarf or Bush Lima

PLANT in drills two to three feet apart, dropping the Beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two to three feet apart one way and two to two and one-half feet the other and plant four to six beans in a hill. Hoe often, but only when the leaves are dry. Do not plant till the ground is dry, weather warm and danger of frost is over.

All varieties of Beans, pkt. 10c. All packets and half pounds of Beans are sent postpaid; for larger quantities by mail see "Postage" page 3.

Wilson's Improved Bush Lima. Large pods which frequently contain five or more thick, luscious beans. Matures one to two weeks earlier than Burpee's Bush Lima and is more productive, as it continues bearing until frost.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.60; 15 lbs., \$4.50.

Fordhook Bush Lima. This is so far ahead of the old strain of Burpee's Bush Lima, that it should be used instead; the bean is thicker, sweeter, and earlier, being also more prolific.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.60; 15 lbs., \$4.50.

Burpee's Improved Bush Lima. Pods and beans are both larger and thicker than Burpee's Bush Lima, and fully eight days earlier.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.60; 15 lbs., \$4.50.

Burpee's Bush Lima. This is the true bush form of the old large Lima Pole Bean.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Henderson's Bush Lima. It grows without the aid of poles, in compact bush form, about 18 inches high.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

BEANS—Continued

Pole or Running Varieties

All varieties of Beans, pkt. 10c. All packets and half pounds of Beans are sent postpaid; for larger quantities by mail, see "Postage" Page 3.

THE Pole or Running varieties are tender and should be sown two weeks later than Bush Beans. They succeed best in sandy loam, which should be liberally enriched with manure. Form hills 3 to 4 feet apart; plant 6 to 10 beans in a hill, 2 inches deep, leaving space in center for the pole. When well started, they should be thinned to from 4 to 6 plants in a hill.

One quart will make 100 to 200 hills, according to size of the beans.

Kentucky Wonder, or Old Homestead (Green Pod). Long, fleshy, deeply saddle-backed, stringless pods. Ready for use about 85 days from time of planting. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

White Kentucky Wonder or Burger's Stringless. This variety is earlier and covers a longer season of productiveness than the Brown Seeded Kentucky Wonder. Pods are borne in clusters and entirely stringless. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Cut Short, or Corn Hill. One of the best Corn Beans. Can be used as a snap or shell Bean. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Horticultural. (Wren's Egg, or Speckled Cranberry). An excellent Corn Bean. green shell bean or dry bean for winter use. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Lazy Wife. Pods of medium dark green color; thick, fleshy, and stringless. Beans are white and excellent as shell beans for winter use. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.60; 15 lbs., \$4.50.

White Creaseback. Pods 5 to 6 inches long, perfectly round, with a crease in the back and stringless. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

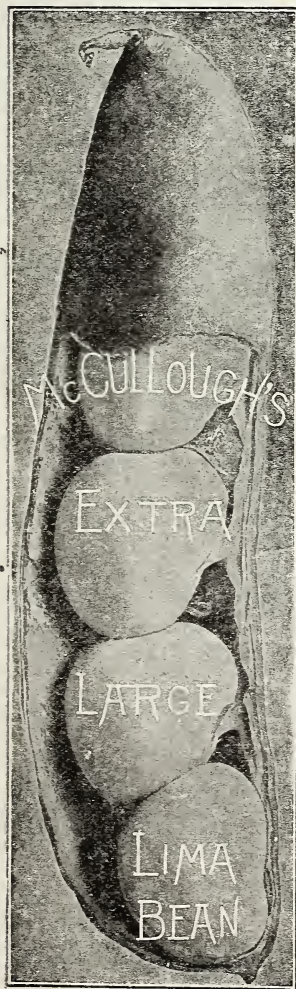
White Sickle. Has a white Bean and makes an excellent shell bean for winter. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Scarlet Runner. An ornamental climber. Bright scarlet flowers; pods are edible when picked young. Pkt., 10c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c.

Tennessee Wonder, or Egg Harbor. Large green pods, curved, double barreled, tinged with purple and wrinkled. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.60.

Ohio Wax Pole. Pods usually 7 inches long, solidly meaty and entirely stringless; commences to bear when scarcely higher than the bush variety, and keeps on producing until killed by frost. Pkt., 10c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 5 lbs., \$1.80.

Golden Cluster Wax. The pods are from 6 to 8 inches long, stringless, very tender and of delicate flavor. Pkt., 10c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 5 lbs., \$1.80.



BEANS POLE LIMA

All varieties of Beans, pkt. 10c. All packets and half pounds of Beans are sent postpaid; for larger quantities by mail, see "Postage" page 3.

Of all the Pole Beans, Limas are considered to have the greatest economic value. The culture is the same as for other Pole Beans except that being more tender, the seed is usually planted one to two weeks later. Plant in hills about three feet apart, and one to two inches deep, using five or six seeds to each hill, and set a pole firmly in the center. Manure liberally in the hill with well-decomposed fertilizer.

Thin the plants, leaving three in each hill. Many cultivators consider it best, in planting Limas and other flat beans, to place the eye down, claiming in this way that they will germinate more quickly. Lima Beans for early use may be grown in frames and transplanted.

McCullough's Extra Large Lima A choice selection of the Large Lima. It produces pods and beans of large size and in great abundance. This variety is without doubt the best for private gardens. The quality is much better than any other variety, the Beans cooking rich and meaty. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Early Leviathan Lima. The earliest variety of Pole Lima; produces pods in clusters. A good variety where the season is short. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

King of the Garden Lima. A vigorous grower, bearing profusely. The beans are large and of rich flavor. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

Seibert's Early Lima. The earliest of all the large Limas. Vine is hardy and vigorous. Continues in bearing longer than any other, fine quality. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$4.00.

B E E T S

THE soil which is best suited is that which is rather light and thoroughly enriched with manure. For an early supply sow in Spring as soon as the ground becomes fit to work, in drills twelve to sixteen inches apart and one inch deep. Or seed may be sown under glass four weeks sooner, and the young seedlings transplanted to open ground to give an extra early crop.

For main crop, sow the first week in May, and for winter use sow in June.

When the plants have attained three or four leaves, thin out so they may stand five or six inches apart. Keep free from weeds by hand-weeding or hoeing. In October roots may be taken up and stored in the cellar or in pits outside like potatoes, care being taken that they are not bruised or injured in the process.

One ounce will sow 50 feet of drill—5 to 6 pounds for an acre.

McCullough's "Norwood" A superb early maincrop Beet. Both for market and the home garden. The roots are of neat turnip shape, growing three or four inches in diameter, deep through, smooth, and entirely free from small rootlets. Flesh deep blood-red, tender, and of rich flavor. Foliage is small, of a rich bronze color. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; per lb., \$2.00.

Arlington. A dark-leaved, early blood variety, closely following Eclipse in maturing, but of darker color and superior quality. An excellent Beet for market gardeners. . Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; per lb., \$2.00.

Bassano. (The Table Sugar Beet.) An early, flat variety, tender, sweet, and juicy; flesh white and rose-colored. . Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Columbia. One of the finest main-crop Beets. Flesh deep blood-red and of rich flavor. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; per lb., \$2.00.

Crimson Globe. An early or main-crop variety of medium size, almost globe-shaped. Flesh blood-red, slightly zoned. Foliage bronzy-purple. . Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; per lb., \$2.00.

Crosby's Improved Egyptian. An improved strain of the Egyptian Beet, much thicker; recommended as an early sort. . Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.75.

Detroit. Skin dark blood-red; flesh bright-red, zoned with a lighter shade, very crisp, tender and sweet. . Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.75.

Early Blood. Flesh dark red, a round variety with small top. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Eclipse. One of the best early sorts. Flesh dark red, zoned with a lighter shade, sweet, crisp and tender. . Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

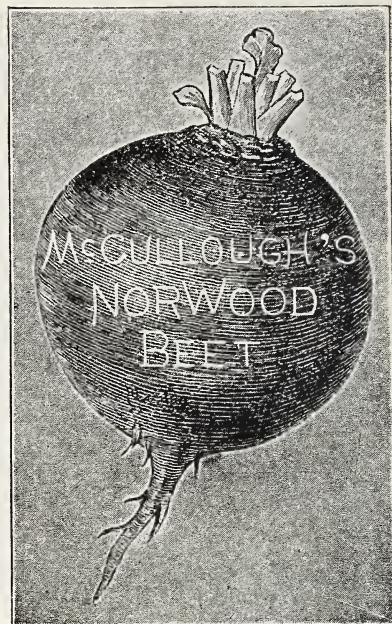
Edmand's Early. Tender and sweet; skin blood-red; flesh dark red. . Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Egyptian Extra Early. One of the earliest, of good quality and medium size; a fine forcer, small top. . Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.75.

Fireball. Flesh is solid, crisp, sweet, and of a brilliant fiery red color. Globular in form and of the finest table quality. . Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; per lb., \$2.00.

Half Long Blood. One of the best for winter use. Roots are only half as long as the Long Blood, but weigh as much on account of their thickness. . Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.75.

Long Dark Blood. A good late variety for fall and winter use; sweet and tender. . Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.75.



Swiss Chard or Spinach Beet

Giant Lucullus. The plants grow from 2 to 2 $\frac{1}{2}$ feet tall and when fully developed produce about a dozen creamy white curled leaves, which are carried on broad thick stalks, about 12 inches long. The leafy portion of the plant should be cooked like Spinach and the stalks like Asparagus. . Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; per lb., \$2.00.

Swiss Chard or Silver Beet. Its leaves make splendid "greens" and the broad, white stalks or midribs are cooked and served like Asparagus. . Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.75.

B E E T S—Cattle and Sugar

SUGAR BEETS FOR STOCK

Sugar Beets are not as heavy yielders as the Mangels, but are of superior quality, containing a large amount of sugar. They are excellent for feeding cows, improving wonderfully the quantity and quality of the milk.

Five to six pounds of seed required per acre.

Vilmorin's Improved. A medium sized white Sugar Beet, perfect in shape and color of roots. . Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; per lb., \$1.00.

Lane's Imperial. Early, large and productive. . Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; per lb., \$1.00.

Giant Half-Sugar Green Top. Longish ovoid, red skin; white flesh. . Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; per lb., \$1.00.

MANGEL-WURZELS

Sow in rows 2 $\frac{1}{2}$ feet apart as soon as the ground can be thoroughly worked. Cover seed about 1 $\frac{1}{2}$ inches, making ground firm over the seed. When 4 inches high, thin to 8 inches apart. Six pounds sow one acre.

Golden Tankard. Bright yellow, large, handsome, heavy cropper. . Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; per lb., 75c.

Mammoth Long Red. Roots of large size and excellent quality. . Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; per lb., 75c.

BROCCOLI

Sow in beds middle of Spring, transplant and cultivate the same as Cabbage.

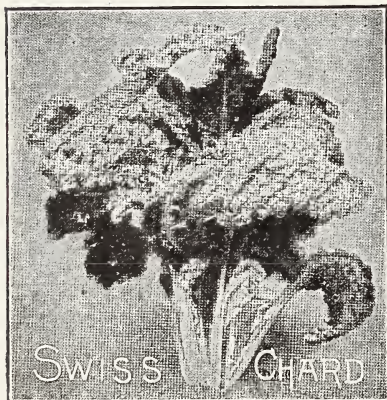
Early Large White. Pkt., 10c; oz., 50c.

Early Purple Cape. Pkt., 10c; oz., 50c.

BRUSSELS SPROUTS

Sow seed for plants in frames or open ground. Set plants in early Spring, and for succession up to July, making rows 3 feet apart and having the plants stand 1 $\frac{1}{2}$ to 2 feet apart in the row. Cultivate same as Cabbage.

Dwarf Improved. Pkt., 5c; oz., 35c.



CABBAGE

FOR plants of the earliest sorts, sow seed in January or February under glass, and prick out in flats or frames about 2 inches apart each way. Transplant to open ground as soon in Spring as the land can be properly prepared. A rich, warm, fibrous loam is best. Have the plants in the rows 20 to 24 inches apart, and rows at least 2 feet apart. Give thorough cultivation and irrigate in dry weather if practicable. Protect from the ravages of cutworm, maggot and green worm. A little nitrate of soda applied around the plant is of great benefit. For late Cabbage plants, sow seed in drills in open ground during April and May, and transplant in June and July, giving the plants more room than allowed for earliest Cabbages. Dusting with tobacco dust, insect powder, etc., or splashing with hot soapsuds, especially Fish Oil Soap solution, are good and safe remedies for some of the insect pests attacking plants of the Cabbage. **Sow one ounce for 2,000 to 2,500 plants; five ounces for one acre.**

NOTE:—McCullough's "Louisville Drumhead" Cabbage is so well known and so much sought after that many firms are offering cheap stocks. We have tested many of these and find some entirely untrue and others of inferior strains. Be sure to get our highly selected, genuine type direct from us.

McCullough's Early Louisville Drumhead

Originated by us many years ago, and is still the peer of all other varieties for early market purposes throughout this section. It is highly esteemed by the market gardeners, and it will stand hot weather better than any other sort; will stand the entire summer without bursting; in fact, we produced heads that weighed 18 pounds on September 1, having been planted with Jersey Wakefield, which was long unfit for use. Our Louisville forms large, solid heads, and is the earliest large-heading variety, while, if planted later, it makes excellent heads for winter. The quality is very fine, and is remarkable for its certainty to head. For winter use, sow later in the season. We have received expressions of unanimous praise from all parts of the country, and could fill many pages of our catalogue with testimonials.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

McCullough's Early Market

A new, early, round head Cabbage. Will produce double the crop of any other early variety; always extremely solid and fine ribbed. It is very dwarf and compact, allowing of close planting. Heads fine, ball-shaped, and with few outside leaves. Size ideal for marketing. (Supply limited.)Pkt., 15c; oz., \$1.00.

Early Jersey Wakefield. One of the best extra early varieties. The heads are conical in shape and of best quality.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

Charleston, or Large Wakefield. Has all the characteristics of the Early Jersey Wakefield, but of greater size and is only a few days later.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

Early Winningstadt. Heads are conical in shape, but not so early as the Jersey Wakefield. Hardest heads of any early Cabbage.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

Early Summer. A second early with large, solid, flattish heads, coming in a few days later than the Wakefield.Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.25.

All Head, Early. The largest heading of the second early sorts. Heads are solid and uniform in color, form and size.Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.25.

Glory of Enkhuizen. Heads are globe-shaped, medium size and handsome dark-green color. The quality is excellent.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

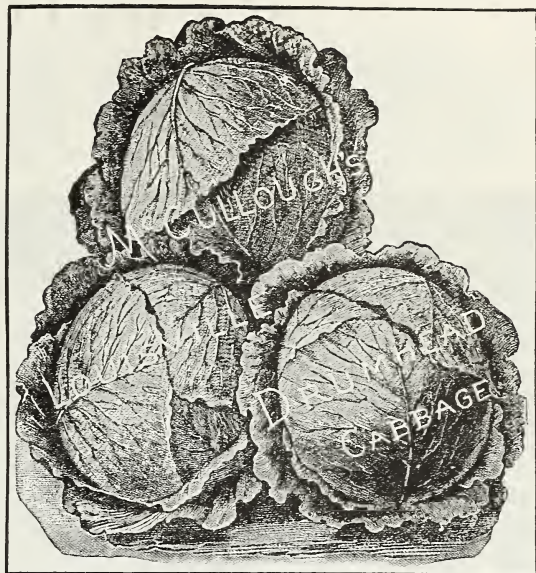
Early Dwarf Flat Dutch. One of the best second earlies. Heads are large, solid and nearly flat on top.Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.25.

Succession. A second early, round-head sort. Heads are solid, keep well and are of splendid quality; color, light green.Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.25.

All-Seasons. (Vanderkaw.) Large, hard, solid and slightly flattened heads. As good for Autumn or Winter as for early Summer.Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.25.

Copenhagen Market. The earliest large, round headed sort, ripening early and uniform. It has few outer leaves and a short stem.Pkt., 15c; oz., \$1.00.

Danish Ballhead. Heads of good size, averaging about 8 pounds, nearly round, solid and superior quality.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.



Large Late Drumhead. A favorite winter variety. The heads grow to very large size and heavy weight. Solid, and of good quality.Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.25.

Surehead. A good strain of late Flat Dutch. Heads grow large and are of good texture. It is also a good keeping variety.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

Autumn King. A fine strain of late Cabbage. It produces regular, even heads of enormous size, with few outer leaves.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

McCullough's Premium Late Flat Dutch. A variety for winter market; has no superior. Heads large, round, solid, broad and flat on top. They open white and crisp, are tender and well-flavored. The best variety for keeping. Our stock has been carefully selected for several years. No better strain on the market.Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.25.

Early Red. Extremely early and valuable for pickling.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

Mammoth Rock Red. The largest and most solid of the red varieties; a sure heading sort and tender.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

SAVOY CABBAGE

THEY are particularly adapted to private use, where quality rather than quantity is desired. Grown in fall and allowed to be touched by frost, it is one of the most delicious of all vegetables.

Early Dwarf Ulm Savoy. One of the finest flavored sorts. Heads solid and with few outer leaves.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

American Drumhead Savoy. Heads large and very finely curled; short stalk and compact grower; an excellent keeper.Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

PE-TSAI, CHINESE OR CELERY CABBAGE

THE Seed we offer is the true variety which has been grown in China for many years. This new vegetable is a species of Cabbage with a fine delicate flavor and resembles a stalk of Celery more than a head of Cabbage. It is as tender as Head Lettuce and is rapidly coming into general use for salads or cold slaw. Can also be eaten raw or may be cooked. The many uses to which it can be put as a "high toned vegetable" is bound to make it popular with the public as well as the market gardener. This delicious vegetable may be grown in any soil that will grow good Cabbage, but to attain perfection should be grown in cool, moist and very rich soil.

Seed should be sown about the first of August in rows 24 to 36 inches apart, thinning to 15 inches apart in the rows.

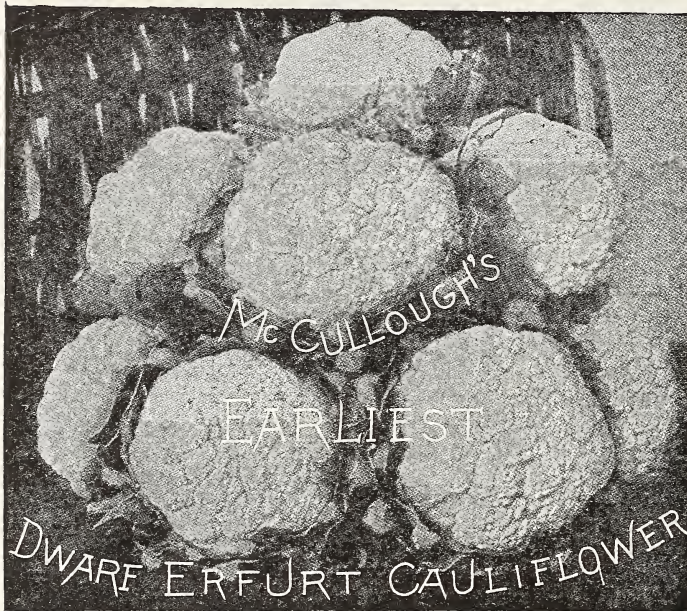
If weather is warm at time of heading tie up like Endive and keep well watered.

As this variety will not stand frost it should be stored in a cool, frost-proof cellar. Early sowing is not recommended.Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

CAULIFLOWER

FOR early use, sow in hotbeds in January and February. When plants are large enough, transplant three inches apart in boxes or other hotbeds until time to plant out. If hardened off they are seldom injured by planting out as early as the ground can be worked, 2½ feet apart each way. When practicable, seed may be sown in rich soil from the middle of September to middle of October, and transplanted in frames; protect during severe weather and give light and air on mild days. The early varieties should be brought to maturity before summer heat sets in. The late sorts mature in the autumn and are cultivated same as winter Cabbages.

One ounce of seed will produce about 3,000 plants.



✠-----✠-----✠ This is beyond
 ✠ McCullough's ✠ question the best
 ✠ Earliest ✠ for all purposes.
 ✠ Dwarf Erfurt ✠ It heads where
 ✠-----✠-----✠ others fail. Year
 after year this has become more popular,
 until leading market gardeners now grow
 it entirely, having discarded all the older
 varieties, as they find our strain of Erfurt
 to be the surest-heading. On account of
 its dwarf and compact habit, the plants
 may be set out 20 to 22 inches each way,
 so that from 12,000 to 14,000 can be
 planted on an acre. For pickling it is the
 standard variety. The compact and solid
 texture of the snow-white heads, combined
 with delicious flavor, surpass all others.
 Pkt., 25c; ¼ oz., \$1.25.

Early Snowball. (True.) An extremely
 early dwarf variety; producing magni-
 ficent white heads, of fine quality.
 Well adapted to hot-bed culture.
 Pkt., 20c; ¼ oz., 90c; oz., \$3.00.

Danish Giant. A large, heavy sort,
 maturing soon after Dwarf Erfurt.
 The best and surest heading of all for
 summer use.
 Pkt., 20c; ¼ oz., 90c; oz., \$3.00.

Early Paris. Heads large, white, com-
 pact, solid and tender.
 Pkt., 10c; ¼ oz., 30c; oz., \$1.00.

Veitch's Autumn Giant. One of the
 finest late varieties, of robust habit;
 heads large and compact.
 Pkt., 10c; ¼ oz., 30c; oz., \$1.00.

Special price to market gardeners.

CARROTS

A Light sandy loam, well-tilled
 and manured the previous year,
 best suits the Carrot. For
 early crop sow as early as the
 ground can be worked, in drills 10
 inches apart, and thin, 5 inches in
 the rows. The Early Market, owing
 to its extreme earliness, is used
 for hotbed culture. The late sorts,
 long and half-long varieties (main
 crop), sow from middle of May until
 first of July in drills 12 to 14 inches
 apart. Thin out to 6 and 7 inches
 in row. Keep the hoe at work.
 Carrot seed is slow to germinate.

One ounce will sow 100 feet of
 drill—3 to 4 pounds for an acre.

Early Market, Stump-rooted.
 A very choice strain, tender,
 fine-grained flesh; free from
 core and of a deep golden
 yellow color. A most excellent
 forcer.

Pkt., 5c; oz., 25c; ¼ lb., 75c.

Early Scarlet Horn. An early red
 summer variety; fine grained
 and good flavor.

Pkt., 5c; oz., 20c; ¼ lb., 70c.

Chantenay. Is very early and produces smooth, shapely
 roots, about 6 inches long, thick through and de-
 cidedly stump-rooted; flesh is deep orange red and of
 a splendid flavor. Our strain of seed is unsurpassed.

Pkt., 5c; oz., 20c; ¼ lb., 70c.

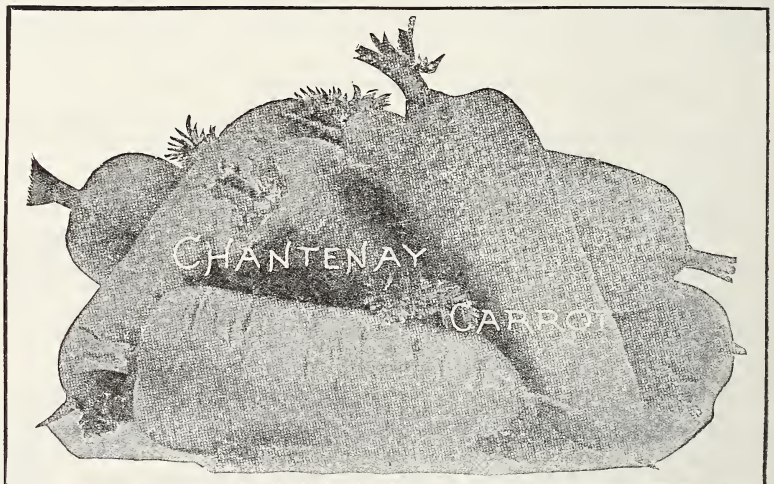
Danvers. Cylindrical-shaped, stump-rooted, rich, dark
 orange color and grows to a large size.

Pkt., 5c; oz., 20c; ¼ lb., 70c.

Oxheart or Guerande. Intermediate length, 3 to 5 inches
 in diameter; quality extra good; is especially adapted
 to shallow soils. . . . Pkt., 5c; oz., 20c; ¼ lb., 70c.

Nantes Half-Long Scarlet. A stump-rooted variety,
 having little or no core; flesh red and of fine flavor.

Pkt., 5c; oz., 20c; ¼ lb., 70c.



✠-----✠-----✠
 ✠ McCullough's ✠
 ✠ Intermediate ✠
 ✠-----✠-----✠

A large, handsome main-crop vari-
 ety. It is the connecting link be-
 tween half-long and long Carrots,
 with a yielding capacity in deep soils
 equal to any of the longs. The root, 10 or 12 inches
 in length, is very broad at the neck, 2 to 3 inches through, and
 tapers evenly to the small tap-root. Grows smoothly and
 uniformly and combines with its other merits rich reddish-
 orange flesh, tender, sweet, and entirely free from woody
 coarseness even at maturity. Pkt., 5c; oz., 20c; ¼ lb., 60c.

Improved Long Orange. A standard late variety, deep
 orange color. It is of excellent table quality and is
 highly nutritious for stock.

Pkt., 5c; oz., 15c; ¼ lb., 50c.

Large White Belgian. The lower part of the root is
 white; that growing and exposed above ground, green.
 It is exclusively grown for stock.

Pkt., 5c; oz., 15c; ¼ lb., 50c.

CELERY

TO grow early Celery, sow the seed late in March in a hotbed or box, and for later crops in the open ground, as soon as the weather becomes warm; cover lightly, or better still, roll or press it in. Shade the young plants for a week or ten days, and do not let the soil dry out. The tops may be shorn off once or twice before planting, so as to insure "stocky" plants, which will suffer less on being transplanted. When from four to six inches high, transplant into broad, shallow trenches, or on the level ground, setting the dwarf sorts into rows three feet apart, and the tall varieties four feet apart and six inches apart in the rows. The soil should be light, highly manured, partially shaded and moist, or near water, as the plant must be freely watered in dry weather, but it should not be put directly on them. Earthing up checks growth and should not begin until quite well grown, then earth up gradually, keeping the leaf stocks close together, so that the soil may not fall into the center of the plant, but never earth up in wet weather, nor when dew is on them. That intended for Winter and Spring use needs little banking; when stored for winter it will naturally bleach beautifully white.

One Ounce Will Produce About 2,500 Plants.

McCullough's Paris Golden Yellow.

Extra selected stock, unsurpassed. We have been furnishing our customers this strain of Paris Golden Yellow Celery for a number of years, and it is pronounced by one and all the finest strain they have ever seen. The color is a rich golden yellow, stalks are very solid and tender, flavor is delicious, has large heart, grows medium height, and is without doubt the best early Celery on the market. The demand for our strain of this variety is increasing every year and we advise our customers to order early, as supply is limited. We are confident you can not obtain anywhere a strain of Paris Golden Yellow Celery superior to our own particular selected stock. .Pkt., 10c; oz., \$1.25.

Golden Self-Blanching. An early, desirable sort, requiring but little labor to blanch. The heart is a rich, golden yellow, with light yellowish-green outer leaves. .Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

Easy Blanching. Stalks thick, brittle and excellent flavor. Adapted to early use as well as storing for Winter. Those who have not been successful with other sorts, should give this a trial. Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

White Plume. Is unsurpassed for fall and early winter use, requiring very little earthing up to blanch it. Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

Snow White. A pure white, self-blanching variety. Vigorous growth, ease of blanching, size, richness of flavor, crispness and purity, makes it an ideal Celery. Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

Golden-Hearted Dwarf. A popular variety. Handsome color, medium size, fine flavor. Pkt., 5c; oz., 25c; ¼ lb., 75c.

Giant Pascal. A superior keeping sort. The stalks are very large, thick, solid, crisp, and of rich nutty flavor. It blanches very easily and quickly, and retains its freshness a long time. Pkt., 5c; oz., 25c; ¼ lb., 75c.

Triumph. The best late Celery. A strong and vigorous grower, with very large but crisp, brittle, tender and fine flavored stalks. .Pkt., 5c; oz., 25c; ¼ lb., 75c.

Celeriac, Turnip Rooted Celery

Sow early in Spring. Transplant in May into rich, mellow soil in rows eighteen inches apart and six inches in the row. Grown mostly for its bulbous root.

Large Erfurt. When sliced, with vinegar and oil, makes a delicious salad. .Pkt., 5c; oz., 25c; ¼ lb., 75c.

CHIVES

Chives are of the onion type. Are grown early in the Spring for giving a mild flavor to various dishes. When planted in small clumps they will grow rapidly and increase so as to render division necessary. If not allowed to flower will produce longer. .Pkt., 10c; 3 pkts., 25c. Clumps, 10c each. .Per dozen, \$2.75.



Paris Golden Yellow Celery

COLLARDS

A species of Cabbage, forming a mass of leaves on a tall stem, very popular in the Southern States, as boiling-greens during the Winter months, and also furnishes green forage for poultry and stock during Winter. Cultivation same as Cabbage. .Pkt., 5c; oz., 25c; ¼ lb., 75c.

CHICORY

Large Rooted or Coffee. Grown for the large, thick roots which are dried, roasted and ground as a substitute for Coffee. Soil should be light, rich and deeply worked. Cultivation the same as Carrots. Pkt., 5c; oz., 30c.

Witloof Chicory, or French Endive. Seed should be sown in the open ground not later than June in drills twelve to eighteen inches apart, thinning plants so they will stand about three inches apart. The plant forms long, parsnip-shaped roots, which should be lifted in the Fall, and after cutting off the leaves store in soil in a cool place until wanted for forcing. To force, plant closely in trenches deep enough to permit covering the roots with soil 8 inches deep. If quicker growth is desired mulch with manure 2 feet deep. Requires four to five weeks to force. The blanched head is the edible portion and should be cut with a portion of the neck attached to it. The principal use of Witloof is as a winter salad, and it is most delicious served with French dressing and eaten like Cos Lettuce. Pkt., 5c; oz., 35c.

CORN SALAD or Fetticus

USED as a salad Winter and Spring. Sow in Spring, in drills one foot apart; will mature in six to eight weeks. For Winter and early Spring use sow in drills in August and September. Cover with straw on the approach of winter, to keep the roots from freezing.

On 20 square feet—6 pounds for

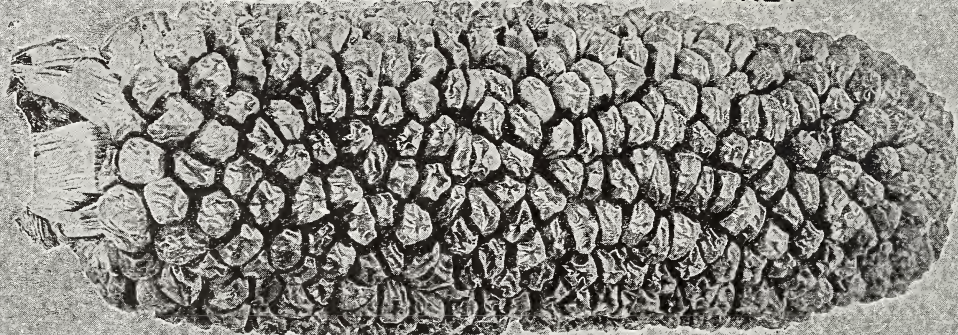
most satisfactory to grow. Pkt., 5c; oz., 15c; ¼ lb., 50c.

C O R N, Sweet or Sugar

THE Sweet or Sugar varieties, being liable to rot in cold or wet ground, should not be planted before May or until the ground has become warm, and for a succession continue planting every two weeks until the middle of July, in rich, well manured ground, in hills 3 feet apart each way, covering about half an inch, and then thin out 3 plants to a hill, or plant in rows 4 feet apart, and to stand 8 inches apart in the rows.

One pound will plant 200 hills—10 to 12 pounds per acre. All varieties of Corn, pkt., 10c. All packets and half pounds of Sugar Corn are sent postpaid; for larger quantities by mail see "Postage" page 3.

McCULLOUGH'S CINCINNATI MARKET



OR CLUB ZIG-ZAG EVERGREEN CORN

The illustration represents a matured ear of our Cincinnati Market or Club Zig-Zag Evergreen Corn. Our patrons can readily infer how juicy this Corn is when the kernels are filled with milk.

McCullough's Cincinnati Market or Club Zig-Zag Evergreen.

This new variety which originated in this market and was introduced by us, has become the best seller on the Cincinnati market. A late Zig-Zag Evergreen Corn, the ear ordinarily being twice the size in diameter of any other sort, while in sweetness and flavor it cannot be excelled.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Adams' Extra Early. The hardest and earliest variety for table use, but not a Sugar Corn; can be planted earlier than any other corn.

Pkt., 10c; ½ lb., 15c; 1 lb., 20c; 5 lbs., 70c; 15 lbs., \$2.25.

Adams' Early. Ears larger than the above and will be ready in sixty days.

Pkt., 10c; ½ lb., 15c; 1 lb., 20c; 5 lbs., 70c; 15 lbs., \$2.25.

Premo. The best extra early variety. The grains are of medium size, well filled to each end of the ear and of a fine sweet flavor.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Early Sheffield. Very early variety. Ears are large, 10 or 12 rowed, and the grains are of medium size; juicy, and of a fine, sweet flavor.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Kendal's Early Giant. Very early, fit for use 60 days from planting. Ears large, twelve rows to a cob. Kernels pure white, sweet and tender.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Golden Bantam. Not only the sweetest, but also one of the hardest. The ears are from 6 to 7 inches long, filled with broad, sweet, golden yellow kernels.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Mammoth White Cory. An extra early sweet corn. Ears covered with large white grains of extra quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Early Minnesota. Very early, ears of fair size and good quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Crosby's Early. A great favorite; productive and of excellent quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Early Mammoth. A second early variety. The ears are of large size, kernels large and very sweet.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Bantam Evergreen. A cross between Golden Bantam and Stowell's Evergreen. An excellent sort of

Ears 8 inches long, 12 rowed, grain rat deep, of a rich golden-yellow color.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40

Early Evergreen. An early strain of Evergreen. The ears grow to a good size, usually about 7 inches long, and contain from 16 to 18 rows of deep, sweet grains.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Long Island Beauty. A most prolific variety, quality extra good. A desirable sort for late planting.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Country Gentleman. One of the richest flavored of all the late varieties. Ears average 9 inches long with plump, pearly-white kernels of great depth.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Stowell's Evergreen. Standard variety, both for home use and market, and is the general favorite. The ears are of a large size, grains deep, exceptionally tender and sugary and has the advantage of remaining longer in the green state than any other.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Narrow Grain Evergreen. Similar in all respects to Stowell's Evergreen, but having very narrow grains.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

White Evergreen. Ears very large and uniformly well filled to the tip with long, slender grains of the purest whiteness and most delicious sweet flavor.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Zig-Zag Evergreen. The ears are as large as those of the Evergreen, but the kernels are placed irregularly or zig-zag upon the cob. Very sweet.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Mammoth Sugar. A late variety, producing ears of very large size and fine flavor.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

Black Mexican. Black-grained variety; sweet, tender; must be picked young to avoid a black appearance when cooked.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.40; 15 lbs., \$3.75.

CRESS, Water and Garden

SOW thickly in shallow drills early in the Spring, and at intervals throughout the season for a succession, as it soon runs to seed. Water Cress requires a stream of running water, ditch or pond, in which it will grow without care, except at first keeping weeds from interfering with it.

Extra Curled or Pepper Grass. Fine flavor and the best sort for dry soils. . . Pkt., 5c; oz., 15c; ¼ lb., 35c.

Water Cress. A desirable and appetizing salad, thriving best in shallow water, on the edges of streams.

Pkt., 10c; oz., 50c.

Seeds
to be sown
in the
spring

CUCUMBERS

FOR very early Cucumbers, sow April 1st, in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground, in rich soil, when danger of frost is over, or protect by hand-glasses. For early use, plant, if the weather has become settled and warm, in hills 4 to 6 feet apart each way; thin out to four of the strongest plants to each hill, after all danger from insects is over. They succeed best in a warm, moist, rich, loamy soil. Continue planting at intervals for a succession. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness. For pickles, plant from June until the middle of July. The yellow-striped cucumber or squash beetle is the most serious insect enemy of this crop.

Bordeaux Arsenate of Lead Mixture is by far the best remedy yet discovered.

Dilute it with water, 3 ounces to the gallon, and spray it on the vines when in danger of the beetle or blight.

Use one ounce of seed to 50 hills, 2 to 3 pounds per acre.

An excellent Cucumber for both forcing and outdoor use. The fruits grow 11 to 15 inches long, slim, slightly pointed, a dark glossy green color, which they keep until ripe. In quality it is very tender, brittle and of fine flavor. A vigorous grower, withstanding blight better than other long sorts.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.50.



Early Fortune. The finest type of White Spine yet produced. Early and very productive; fruits grow 9 inches long, slightly tapering, flesh white, firm and crisp with very few seeds; color dark green. Quality is excellent, either when sliced for use at the table, or for making pickles.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.25.

Ohio White Spine. It is hardy and an excellent shipper, extensively grown in the South for shipping North early in the season. Fruit grows 7 to 10 inches long; of a deep green color and full at both ends.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Early Cluster. An early variety, growing in clusters; very productive. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Improved White Spine. The fruit grows from 7 to 10 inches long, is quite smooth, of a deep green color and full at both ends; extensively grown South for Northern markets. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Davis Perfect. Splendidly adapted for growing either under glass or in the garden. In color, a dark, glossy green; shape, slim and symmetrical, with an average length of 10 to 12 inches.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Early Frame. A good variety for pickling and table; of medium size. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Green Prolific. One of the best pickling varieties; dark green, tender, and crisp; very productive. Good for table use. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Evergreen. Produces fruit of medium size, crisp and of good quality. One of the best varieties for slicing or pickling. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Jersey Pickle. As a pickling variety is unsurpassed. Its characteristics are its uniform growth and immense productiveness. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Long Green Improved. A standard late sort, fruits 12 to 14 inches long, slender, more or less warted, tapering towards the stem end; color dark green, flesh white and firm. Excellent for table and makes a hard, brittle pickle. Extra selected stock.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; per lb., \$2.00.

Long Green. A late sort, good for the table and makes a hard, brittle pickle.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Nichol's Medium Green. One of the best for pickling, and excellent for forcing or slicing.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.75.

Japanese Climbing. It is suitable for growing either in frames or in the open ground, very early and productive. The fruit is excellent either for the table or pickling.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Gherkin. A very small prickly variety, used exclusively for pickling, for which purpose they should be gathered while young and tender. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c.

ENGLISH FORCING CUCUMBERS

The best for forcing, attaining a length of twenty to thirty inches. They can be grown in hotbeds, where the temperature does not fall below 65 degrees at night.

Duke of Edinburg. Very large and long, dull green, quite smooth; packet of 10 seeds.25c.

Telegraph. Free bearing, long and extensively grown; packet of 10 seeds.25c.

EGG PLANT

SEED are of slow germination; require moderate amount of heat. Should be started in hotbeds and not checked after starting to grow. When 2 or 3 inches high they should be potted in 3 inch pots and not set out in the open until nights are warm. Plant about 3 feet apart and keep well watered.

One ounce of seed will produce about 1,000 plants.

Black Beauty. This new variety is an excellent market sort. It is about the same size and shape as the New York Improved, except a little fuller at the top; is a few days earlier and a heavier yielder. Its color is a rich purplish black, which it retains even after becoming ripe.Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.00.

New York Improved. A leading market variety. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

ENDIVE

ONE of the best and most wholesome salads for fall and winter use. Sow in shallow drills in April for early use, or for late use in June or July. When 2 or 3 inches high, transplant into good ground, or thin out to one foot apart. When nearly full grown they must be blanched. This is done by gathering the leaves together, and tying with yarn or bass, to exclude the light and air from the inner leaves, which must be done when quite dry, or they will rot. One ounce of seed to 150 feet of row.

Broad-Leaved Batavian. Leaves broad, light green, nearly plain, used in stews and soups. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Green Curled. Very hardy, crisp and tender. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Moss Curled. It is excellent for winter use. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

White Curled. Coarser than Green Curled, but the mid-rib is yellow and the leaves frequently almost white.Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

French Endive. (Witloof Chicory.) See Chicory.

GARLIC

Plant same as Onions in rows 8 to 12 inches apart; set bulbs 4 inches apart in the rows, covering 2 inches deep.
Bulbs. $\frac{1}{4}$ lb., 15c; per lb., 40c.

HERB SEEDS

Sow early in April or May in a sheltered, well-prepared spot in the open ground, either broadcast or in shallow drills about 7 inches apart. Thin out the plants thus raised, and keep clear from weeds.

Anise. Biennial.	Pkt., 5c; oz., 15c
Balm, Sweet. Perennial, 1 foot.	Pkt., 10c; oz., 30c
Basil, Sweet. Annual, 1 foot.	Pkt., 10c; oz., 25c
Caraway. Perennial, 2 feet.	Pkt., 5c; oz., 10c
Dill. Biennial, 3 feet.	Pkt., 5c; oz., 10c
Fennel, Sweet. Perennial, 6 feet.	Pkt., 5c; oz., 15c
Horehound. Perennial, 2 feet.	Pkt., 10c; oz., 25c
Hyssop. Perennial, 3 feet.	Pkt., 10c; oz., 25c
Lavender. Perennial, 2 feet.	Pkt., 10c; oz., 25c
Rosemary. Perennial, 4 feet.	Pkt., 10c; oz., 40c
Saffron. Annual, 3 feet.	Pkt., 5c; oz., 10c
Sage. Annual, 1 foot.	Pkt., 10c; oz., 25c
Sweet Marjoram.	Pkt., 10c; oz., 25c
Thyme. Annual, 1 foot.	Pkt., 10c; oz., 40c

KALE OR BORECOLE

THE Kales are more hardy than Cabbage; make excellent greens for Winter and Spring use, and are improved by frost. Sow from May to June, and cultivate the same as Cabbage. For early Spring use, sow in September, and protect during the Winter.

One ounce to 300 ft. of row—4 pounds to an acre.



KOHL-RABI (Turnip Rooted Cabbage)

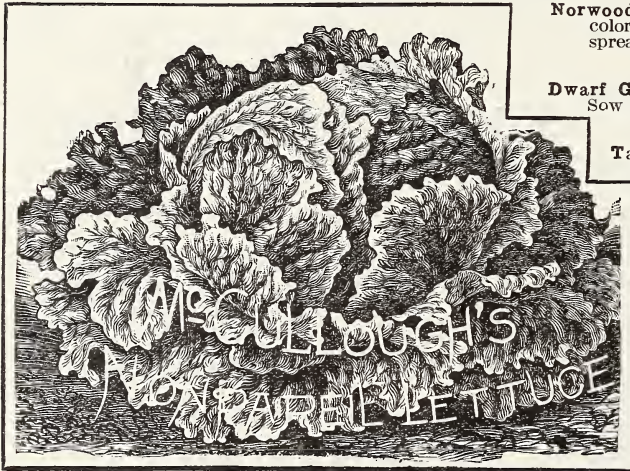
FOR an early crop, start in a hotbed and treat the same as early cabbage. May also be sown as soon as the ground can be worked in Spring. For Winter use, sow the middle of June.

The edible part is the bulb, which grows on a stalk a few inches above the ground.

One ounce of seed for 1,500 plants.

Early White Vienna. The flesh is white and tender.
Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 75c.

Early Purple Vienna. Differs from the above in color.
Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 70c.



McCullough's Market
Gardener's Special

A beautiful curled and crimped variety of strong, vigorous habit, perfectly hardy. Green color and very attractive in appearance.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; per lb., \$2.00.

Norwood Dwarf Curled. The best for private gardens; color, light green and rarely exceeds 12 inches in height, but spreads out under good cultivation to 2 feet in diameter.
Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 70c; per lb., \$2.50.

Dwarf Green Curled. Leaves yellowish-green, finely curled. Sow in September for early Winter and Spring use.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Tall Scotch. Leaves green, curled and wrinkled, grows about 2 feet in height; hardy.
Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 70c; per lb., \$2.50.

LETTUCE

SOW the seed in hotbeds or flats during February or early March, prick the young seedlings out in flats or cold frame 4 inches apart each way, and in Spring, transplant the well-hardened plants in rows a foot apart, allowing 8 to 12 inches space between the plants in the row. For succession, sow seed thinly in open ground, and thin the plants to 5 or more inches apart. Sow for succession every few weeks until the Fall.

One ounce will produce about 3,000 plants.

Head Varieties

McCullough's
Selected Nonpareil

The finest home garden and market variety. Its beautiful yellowish-green color, crimped, curled and well formed heads, tender quality and sweet flavor, place it at the head of the list for the market gardener or for family use. It withstands the heat of Summer and retains its sweetness for a long time. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

All Seasons. A large, medium late sort, heart well bleached; leaves broad, smooth and thick; color light grayish-green, never spotted or brownish; quality excellent.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Iceberg. A large, late, crisp Cabbage-heading variety; heads firm and hard, leaves broad and light green in color, with faint brown tracing on the borders. Quality good. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Big Boston. Heads solid with broad leaves; the best for outdoor or for forcing. Color light green. We have made a specialty of this variety and have a stock that can not be surpassed.
Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

May King. An early, fine variety for Spring and Fall use in the open garden; also for growing in cold frames during the Winter months. The heads are 6 to 7 inches in diameter, with light green outer leaves. The inner leaves are blanched to a golden yellow.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Wayahead. It is not only earlier than May King, and other fine early varieties, but the tightly folded heads are generally larger in size. The outer leaves are a light green, with the inner head finely blanched to a rich buttery yellow. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Hanson. Heads green with white heart. Large size, crisp, tender. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Tennis Ball, White Seeded. Extensively grown for forcing under glass; good size, firm heads.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Yellow-Seeded Butter. A distinct sort, making a compact yellow head, of excellent flavor, withstands heat well and remains crisp and tender.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Lettuce, curled varieties, see page 13.

LETTUCE—Cont'd.

Curled Varieties

Grand Rapids. This is probably the best of the loose-leaved varieties. It never forms a head, but produces an abundant crop of pale green leaves, slightly but closely crumpled, which, even when old, retain their characteristic tenderness and brittle character. We strongly urge those who cannot succeed in getting lettuce to head to grow Grand Rapids.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

White Star. A crisp, loose-heading variety, leaves broad, crumpled and twisted. Color very light green.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Black Seeded Simpson. One of the most popular sorts. It forms large, loose leaves of ideal color; the leaves are large, thin, very tender and of very good quality. It is one of the best sorts for use under glass as well as for early outdoor planting.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Early Curled Simpson. Does not head, but forms a close, compact mass of leaves; very early, excellent for forcing.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Early Curled Silesian. Early, loose heads, curled, tender and fine flavor.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Prize Head. Produces large, loose heads, finely crimped and fringed leaves, outer portions shaded brown; crisp, sweet and tender.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Oak Leaved. Very distinct, excellent for Summer use and for the South.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Romaine, Cos, or Celery Lettuce

These are distinct from the ordinary Lettuce, and much liked on account of their crisp, tender quality and delicate flavor. They produce long, narrow leaves, which are blanched by drawing in the outer leaves and tying.

Paris White Cos. One of the best varieties for blanching; very tender.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Trianan Self-Folding. A self-blanching Cos Lettuce, very crisp and tender, and of excellent flavor.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

LEEK

SOW early in April, in drills one foot apart, one inch deep. When the plants are six to eight inches high, transplant in a deep, rich soil in rows twelve inches apart and six inches in the rows, as deep as possible, so that the neck may be covered and blanched. Draw the earth to them as they grow. The seed may also be sown in September, and the young plants transplanted in the Spring.

Large American Flag. This is by far the best variety. It grows to a good size and is wonderfully uniform.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 75c.

London Flag. One of the hardest; best for Winter use.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 75c.

Large Musselburgh. Of enormous size; leaves large and broad; very mild, pleasant flavor.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 75c.

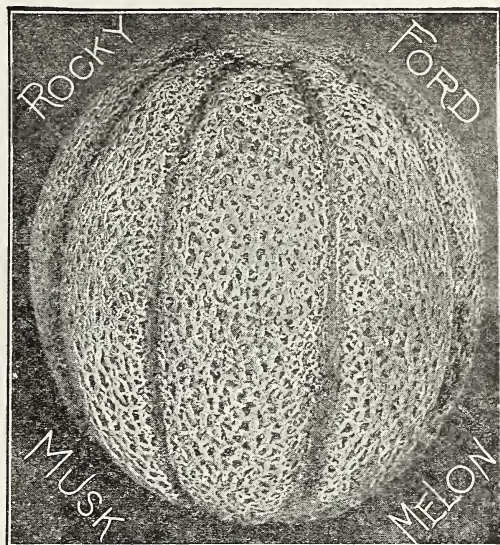
MUSK MELONS

IN selecting a patch for melons be careful to have it at a safe distance from your Squashes, Cucumbers, Pumpkins, etc., or they will certainly mix. In preparing the hills fork in plenty of manure, and about the middle of May, when the ground is warm, plant in each hill eight or ten seeds, and cover half an inch deep. After the danger from bugs is over, pull all but three or four of the strongest plants. As soon as the vines have run sufficiently and spread their branches—stop them by pinching the top off the first running bud. This will strengthen the plants and promote their perfecting fruit early. The ground should be kept free from weeds and frequently cultivated.

One ounce will plant about 50 hills; 2 to 3 pounds in hills per acre.

Honey Dew. Average size is about six to eight inches in diameter and they weigh five to six pounds. Skin smooth with little netting and of creamy yellow color when ripe. Flesh is green, thick, melting, fine grained and can be eaten almost to the rind. Not easily bruised and stands shipping long distances. Easily pulled when ripe and will keep for several weeks. Matures about ten days later than the Rocky Ford.

Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.



Rocky Ford. The fruit is of medium size, oval shaped, heavily netted and very solid. The flesh is green, thick and juicy; an excellent shipping variety.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Delicious Gold Lined. The shape is slightly oval and it is heavily netted; the flesh is thick, fine grained and sweet. The color is green with a gold margin next to the seed cavity.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Extra Early Hackensack. Produces melons two weeks earlier than the well-known Hackensack; heavily netted, and has light green flesh of most delicious flavor.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Hackensack. Melons grow to large size and attractive appearance. Flesh green, very sweet and sugary. Outer skin is heavily netted.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Paul Rose. The flesh is salmon colored, very deep and of fine melting character; the flavor is excellent, sweet and rich.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Tip-Top. Medium sized, nearly round in shape; flesh is deep yellow and has a rich flavor.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Osage, or Miller's Cream. Large, oval, salmon-fleshed, slightly ribbed and netted; skin is very dark green. Flesh is very thick and sweet flavored.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Defender. Medium size, salmon flesh, and delicious flavor; oval shape, slightly ribbed and covered with a slight netting.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Burrell Gem. Oblong in shape, closely netted and slightly ribbed, dark green skin; flesh deep rich salmon-orange color.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Emerald Gem. Medium size, nearly round; flesh light salmon color, very thick, fine flavor. The rind is thin, dark green, ribbed and slightly netted.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Jenny Lind. The earliest variety; netted, of small round size; excellent flavor.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Improved Green Nutmeg. A large melon, nearly round, deeply ribbed, flesh thick, light green, delicious flavor.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Acme. Medium size, oval, ribbed, covered when ripe with coarse netting. Flesh thick, green, very fine flavored and sweet.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Banana. A smooth skinned variety, growing something in the shape of long squash. Fruit about 12 inches long, salmon flesh, sweet, luscious and tender. Rather late maturing. Has a delicious odor.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

WATERMELONS

WHILE a sandy loam is preferable for Watermelons they can be grown on a loamy soil having a clay subsoil, provided it is deeply plowed. When ground is warm, plant 6 to 8 seeds in hills 6 to 8 feet apart each way and cover about 1 inch deep. When well up, thin out to 2 vines in each hill. Do not plant on land where Watermelons were grown before, as the vines exhaust elements in the soil which makes succeeding crops defective.

Watermelons are slightly less subject to "bug" depredations and disease attacks than Muskmelons. At the same time they are more easily hurt by strong spray mixtures, and caution in the use of such mixtures is advisable.

One ounce for 30 hills—4 to 5 pounds for an acre.

Excel. Fruits oblong in shape, dark green color with tracings of light green; flesh deep red, crisp and tender. Weight, 35 to 60 pounds. Its carrying and keeping qualities are unsurpassed.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Tom Watson. The average melon will weigh 30 to 40 pounds and measure about 28 inches long and about 12 inches in diameter. The luscious crimson flesh is "as sweet as honey" and of superb flavor. It is very prolific.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Kleckley's Sweet. It is most desirable to plant for home use or local markets. The melons themselves are very large, oblong in form, with dark green skin, thin rind, which is very brittle. Flesh is bright scarlet, with solid heart, deliciously crisp.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; per lb., \$1.20.

Cole's Early. Large heart, flesh of fine texture and good flavor. Rind thin; fine for the home garden.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Jumbo or Shakers Blue. Melons grow from 16 to 18 inches long by 12 to 15 inches in diameter; the skin is dark green; flesh is red and the flavor superb.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Fordhook Early. The fruit is of good size, skin dark green, flesh bright red; crisp, sweet, and of splendid quality. Excellent shipping variety.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Kolb Gem. Extensively grown for long distance shipping; melons large, of very thick, oval, blocky form; flesh is bright red and of good flavor; skin striped light and dark green. . . Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Dixie. A cross between the Kolb Gem and old-fashioned Mountain Sweet, surpassing the former in earliness, productiveness and shipping qualities.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Gray Monarch. Large size; the skin is a mottled gray; shape long; flesh bright crimson and of sweet, delicious flavor. . . Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Kentucky Wonder. Shape oblong, good size; skin dark green and beautifully marked. Flesh rich scarlet color, crisp, rich, sugary, firm and solid.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Halbert Honey. A very sweet, long, dark green variety. Fruit averages 18 to 20 inches long, has a thin rind and deep red meat of delightfully delicious flavor; seeds white. One of the finest for the home garden.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; per lb., \$1.20.

Florida Favorite. Oblong in shape and large size; rind dark, with light green stripes; flesh light crimson, and sweet. . . Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Sweetheart. Flesh bright red, solid and tender.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Cuban Queen. Flesh bright red, tender and melting, luscious, crisp, very sugary.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

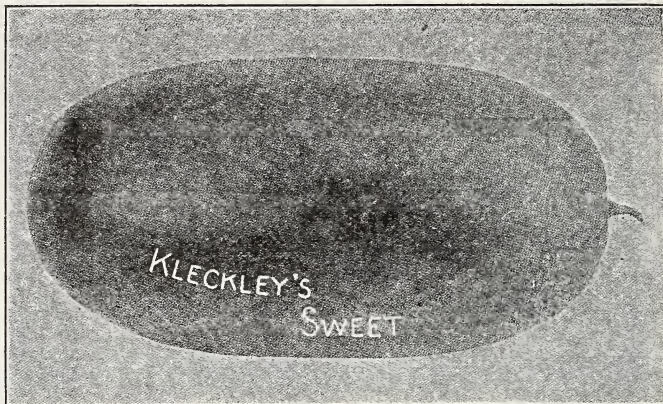
Dark Icing, or Ice Rind. A very solid sort with a thin rind, and possesses most delicious flavor.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Blue Gem, or Iceberg. Grows large; flesh a beautiful shade of pink, darker than Kolb's Gem, heart large and flesh extends close to the outer skin; sweet and delicious. . . Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Long Light Icing. The skin a mottled gray color, shape long, flesh bright crimson and sweet.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.



Peerless, or Ice Cream. Of medium size; skin light mottled green, flesh scarlet.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Pride of Georgia. Dark green color, almost oval.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Rattlesnake, or Gypsy. Fruit large, oblong, striped; flesh red. . . Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Colorado Preserving Citron. Flesh white and firm.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c.

MARTYNIA—For Pickles

The young and tender seed pods make a very fancy pickle. These pods are of curious shapes and bear abundantly. They should be gathered when less than half grown. Sow in the open ground in May, in hills 3 feet apart each way.

Martynia Proboscidea. Pkt., 5c; oz., 30c.

MUSTARD

One ounce will sow 100 feet of drill.

A small, pungent salad used like Cress. The seed is also used for flavoring pickles, pepper sauce, etc. For salads sow thickly in shallow drills, 6 inches apart, or in frames or boxes during the winter, where frost can be partially excluded. Successive sowings can be made every week or two. To grow seed, sow in April, in rows 1 foot apart, and thin out to 3 inches apart when 2 inches high.

White English. Best for salads.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

Chinese, or Giant Southern Curled. The large leaves, which often measure 14 inches, are ready for use in about six weeks after sowing. Leaves are eaten boiled, like Spinach. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c.

OKRA, OR GUMBO

This vegetable is extensively grown for its green pods, which are used in soups, stews, etc., to which they impart a rich flavor, and are considered nutritious. Sow the seed thickly in rich ground, about the middle of May, or when the ground has become warm, in drills 3 feet apart, 1 inch deep; thin to 12 inches apart in drills. Culture otherwise much like Corn.

Perkins Mammoth. The pods grow 4 to 5 inches in length and are very tender, long, slim and deep green; plant is dwarf, and very productive.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

White Velvet. Pods are round, smooth, velvety white; of superior flavor and tenderness. Plants dwarf, very prolific. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

Dwarf Green. The best of the dwarf sorts. It makes a stocky growth of plant and is very productive. The pods are long, slender and of a light green color.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

Long Green. Taller than the preceding, bearing long, ridged pods. Highly esteemed in the South.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

MUSHROOM SPAWN

MUSHROOMS can be successfully and profitably grown during the winter and spring months in frames under greenhouse benches, in the open fields, or in cellars or out-houses.

One pound of Spawn is sufficient for a bed 2 x 6 feet.

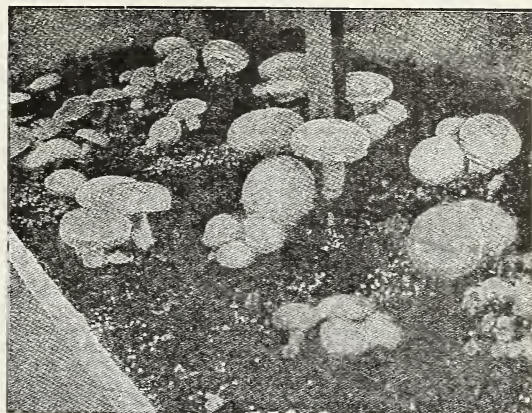
We supply many of the largest commercial growers in the United States and have on hand at all times in the season fresh Spawn of the best manufacture.

English Milltrack Mushroom Spawn. Our celebrated English Milltrack brand (made by the best maker in England specially for our trade) has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied upon to produce a good crop of the best Mushrooms. Commercially, it is more planted than any other Spawn. It comes in pressed bricks weighing about 20 ounces. They are broken into pieces the size of a walnut and put sideways in the beds 10 to 12 inches apart each way. Prices, by express—customer to pay charges. Per brick, 25c; per lb., 20c; 10 lbs., \$1.75; 100 lbs., \$12.00. By mail, 30c per brick, postpaid.

Treatise on Mushroom Culture. 10c, or given with an order of 10 lbs. of Mushroom Spawn.

Mushroom Culture. (Wm. Falconer.) The most practical work on the subject; \$1.00.

Special Prices will be given to those who use Mushroom Spawn in quantity.



American Made Pure Culture Mushroom Spawn. A very superior article, made in this country from carefully selected spawn, which it is claimed is much more vigorous than the imported article, and will produce Mushrooms of a very superior quality and flavor. The popularity of Pure Culture Spawn is increasing rapidly and many of the large growers are now using it. They claim it is a surer crop. Amateurs have much the best results with this kind. By express—customer to pay charges—per brick, 30c; 5 bricks, \$1.25; 100 bricks, \$20.00. By mail, 35c per brick; 5 bricks, \$1.50, postpaid.

ONION SEED

FOR sets, drill the seed thickly as early as possible in the Spring. As soon as the tops dry off in the Summer, remove to a dry, airy place. May also be grown to full size the first season by sowing thinly in drills one foot apart and one-quarter inch deep, in March or early April, thinning to three or four inches apart.

By sowing in frames in February or March and transplanting in April, onions of immense size can be obtained. For this purpose the Southport Globe varieties (white and yellow) and Prizetaker are usually preferred. Onions delight in a strong, rich, deep loamy soil, and succeed well if grown successive years on the same ground.

One ounce for 150 feet of drill. 5 to 6 pounds for one acre. Onion seed for sets, 30 to 40 pounds per acre.

Yellow Globe Danvers. A standard sort; an excellent keeper and very productive. Our strain of this variety is the true globe shape, and not of the flat type. It is the best paying onion that is grown for general crop, and has been the leading variety for years.

Pkt., 5c; oz., 30c; ¼ lb., \$1.00.

Prizetaker. The true Prizetaker is globe shape, has pale yellow skin and white flesh, which is very mild and of delicate flavor. It is strictly "fancy", and will be found on fruit stands during the fall, where it is sold as Spanish Onion. No sets are required, as the large Onions are grown the first year from seed sown during early spring.

Pkt., 10c; oz., 35c; ¼ lb., \$1.25.

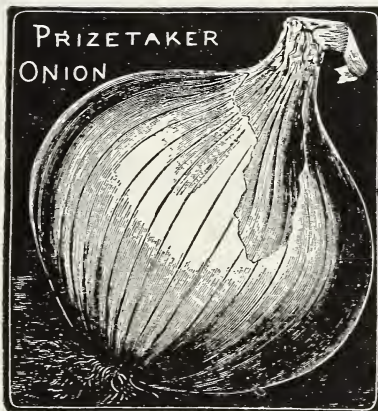
Southport Yellow Globe. A very large, handsome, globular-shaped yellow variety, very productive, of mild flavor. The outer skin is beautiful pale yellow; the bulbs are of a beautiful globe-shape and good keepers. Pkt., 5c; oz., 30c; ¼ lb., \$1.00.

Yellow Danvers. Bulb of good size and flat, the standard yellow onion for market or home use, being both early and an enormous yielder as well good keeper.

Pkt., 5c; oz., 25c; ¼ lb., 80c.

Yellow Dutch, or Strasburg. A good keeper and well flavored; bright straw colored skin and somewhat flattened shape. The Onions grow to a good size and are very mild. This variety is largely grown for sets.

Pkt., 5c; oz., 25c; ¼ lb., 80c.



Large Red Wethersfield. Grows to full size the first season from seed. The Onions are large, flat in shape, with skin of a purplish-red color and flesh of a purplish-white color, rather strong-flavored; an excellent keeper.

Pkt., 5c; oz., 25c; ¼ lb., 80c.

Southport Red Globe. Beautiful globe-shaped; of medium size, a good keeper and of superior quality. Very popular in some sections.

Pkt., 10c; oz., 35c; ¼ lb., \$1.25.

White Portugal, or Silver Skin.

This variety is one of the leading white sorts. The bulbs are flat in shape and mature early. Largely used for growing sets.

Pkt., 10c; oz., 35c; ¼ lb., \$1.25.

Southport White Globe. Pure white color, mild flavor. A good keeper and very productive. It is best to dry these Onions in a shady place, where they will get plenty of air. Pkt., 10c; oz., 35c; ¼ lb., \$1.25.

Mammoth Silver King. A large, flat variety. Specimens have been grown to weigh as high as 4 pounds. Skin pure white and flesh tender. Pkt., 10c; oz., 50c; ¼ lb., \$1.75.

White Queen. A rapid-growing variety of mild flavor; pure white, and splendid for pickling.

Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

White Barletta. An extra early small white Onion; similar to White Queen. Pkt., 5c; oz., 40c; ¼ lb., \$1.50.

Early White Bunch. Used largely for pulling when young, as a bunch Onion. If left to mature, grows to good size; very showy. Pearly white skin. Flesh of good quality and a good keeper. Pkt., 10c; oz., 40c; ¼ lb., \$1.50.

Early White Welsh Onion. The best kind for green onions, forms no bulb. Plants can be propagated from seed or divisions, a great saving in cost over top sets.

Pkt., 10c; oz., 40c; ¼ lb., \$1.50.

ONION SETS

Onion Sets should be planted out as early in the Spring as the ground is dry enough to work; plant them in rows 12 inches apart, with sets 2 inches apart in the row. We handle sets of the standard varieties.

Prices subject to market changes.

Lowest market price will be given upon application.

GARDEN PEAS

One pound will plant about 50 feet of drill—90 to 120 pounds per acre.

PEAS succeed best in light, dry, loamy soil. Early and Dwarf sorts require richer soil than the late varieties.

If manure is used, let it be old and well rotted, or there will be a rank growth of vines with few pods. Sow the early smooth, round sorts as early in spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. From the first sowing, sow every two weeks until June for a succession. After that there is danger of mildew. Discontinue then until August, when a planting of extra early or early sorts will often produce a good crop. Sow the seed in single drills, three feet apart for dwarf sorts and four for tall sorts, or in double drills six or eight inches apart, one inch apart in the drill, and not less than four inches deep, since deep planting prevents mildew and prolongs the season. Cultivate well, and draw the earth twice to the vine during growth. Stake the tall varieties when they begin to vine. Pick the pods as soon as fit, and allow none to ripen on the vines, as they will then cease bearing. All kinds of Peas do best when supported with brush or wire.

All varieties of Peas, pkt. 10c. All packets and half pounds of Peas are sent postpaid; for larger quantities by mail, see "Postage" page 3.

Early Varieties



The earliest and most prolific Pea known. Pod is dark green of a full, round shape, and strong texture, which especially fits it for shipping long distances. For a late fall crop it has few equals, and is the market gardener's favorite for all seasons. Make first planting as early in the spring as the ground will permit and cover well.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; 15 lbs., \$3.50.



This extra early new Pea promises to prove the earliest in the market. It grows about two feet high, stem strong, very vigorous and bears well-filled, round pods about three and a half inches long.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; 15 lbs., \$3.50.

Market Surprise. This is another addition to the extra early type of Peas, but pods are larger and contain 6 to 8 large peas of excellent quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Little Marvel. For quality and productiveness it is away ahead of everything in the way of extra early wrinkled peas. Grows about 15 inches high; pods dark green.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Nott's Excelsior. A dwarf wrinkled Pea; pods average three inches in length and are well filled with peas of large size and sweet flavor; height one and one-fourth feet.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; 15 lbs., \$3.50.

Laxtonian. Pods and plants are rich, dark green; pods are very large, and are produced on a low-growing, sturdy vine. It is ready for use about a week later than the very early sorts, and is good in quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Thomas Laxton. Ripens within a day or two of the earliest round varieties, and is extremely productive. The pods are very large and contain 7 or 8 large-sized wrinkled peas of the finest flavor. It is darker colored than the Gradus and hardier in constitution; height, three feet.

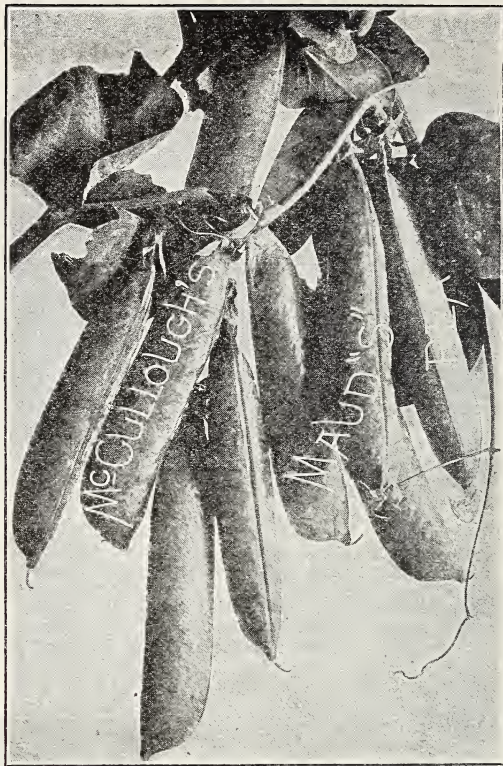
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Gradus or Prosperity. This is an early wrinkled Pea, growing about 30 inches high; the pods are of a bright green color, measuring 4 inches or more in length, as large as Telephone, well filled with luscious peas, 8 to 10 or more in a pod of the highest table quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Alaska. An early, smooth, blue Pea; vines slender; pods very dark green, about three inches long, well filled with small, smooth, blue-green peas. Height, 2 feet.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; 15 lbs., \$3.50.



Extra Early Premium Gem. An improved Little Gem Dwarf, green wrinkled, large pods and fine flavored Peas; height, one and one-half feet.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; 15 lbs., \$3.50.

American Wonder. This variety stands unrivaled in point of flavor and quality. It is dwarf and robust in habit, growing from 10 to 15 inches in height.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; 15 lbs., \$3.50.

Second Early and Main Crop

Boston Unrivaled. An improved Telephone. Vines grow nearly five feet high, pods are about 5 inches in length, each containing seven or eight large peas of finest flavor.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.50.

Buttercup. Pods are long, rounded or curved at the end and filled with large Peas, which are of excellent flavor. Vines make a rapid growth to about two feet in height; ready for use in about 65 days from time of planting.

Pkt., 10c; ½ lb., 25c; 1 lb., 40c; 5 lbs., \$1.75; 15 lbs., \$4.50.

Abundance. Pods contain 6 to 8 large wrinkled Peas; ripens about one week after the earliest kinds. A feature of this variety is its tendency to branch out at the roots, and for this reason the seed should be planted thinly; height, one and one-half feet.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; 15 lbs., \$3.50.

Advancer. It is a wrinkled variety, grows about two feet in height, but needs no brushing. Has broad, long pods, well filled with fine large Peas of fine flavor.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; 15 lbs., \$3.50.

Admiral Dewey. The largest podded Pea yet introduced. Peas large, tender and of fine flavor. Height, three and one-half feet.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Duke of Albany. A large pea of Telephone type, growing about four feet high, producing heavy crops of pods of a deep green color; peas of good quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Telephone. The favorite late variety; pods are very large and filled with immense peas, which are largest of any. Tender, sweet and of splendid quality and flavor. Vine large, with coarse leaves; height about 4 feet.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

WE HANDLE PEAS BY THE CARLOAD—Write for Special Prices if You Use Them in Quantity.

GARDEN PEAS—Continued

All varieties of Peas, pkt., 10c. All packets and half pounds of Peas are sent postpaid, for larger quantities by mail, see "Postage", page 3.

Main Crop Varieties—Continued

Improved Stratagem. The vines are strong, vigorous and covered with immense pods containing as high as 10 large, richly flavored, wrinkled peas. Height, two to two and one-half feet.

Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Alderman. The vine grows five feet in height, the pods are dark green and always well filled with fine large peas of superior flavor.

Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Everbearing. A prolific and continuous-bearing Pea; pods 3 to 4 inches long, containing 6 to 8 large, wrinkled peas, of rich flavor, sweet and tender. Three feet.

Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; 15 lbs., \$3.50.

Improved Champion of England. A tall-growing, green, wrinkled marrow; quality unsurpassed, pods medium, peas large. Five feet. . . Pkt., 10c; $\frac{1}{2}$ lb., 25c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$4.00.

Telegraph. A second early variety, very robust in habit, bearing immense pods. The peas when cooked, are of a deep green color. A great bearer and of fine flavor. Three and one-half feet.

Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Long Island Mammoth. A strong grower, produces pods containing 10 to 12 large peas, of fine flavor. Three and one-half feet.

Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Black-Eyed Marrowfat. This and the White Marrowfat are extensively grown as field peas, as they are hardy, productive, and bear well-filled pods. Four feet.

Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 5 lbs., \$1.25; 15 lbs., \$3.00.

Large White Marrowfat. A favorite variety, large well-filled pods. Five feet.

Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 5 lbs., \$1.25; 15 lbs., \$3.00.

Dwarf Sugar. Edible pods. Can be used in a green state like string beans. Height, five feet.

Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Melting Sugar. This variety grows to the height of five feet, bears a profusion of large, broad, handsome, light green pods which are generally found in pairs, and are so brittle that they snap without any strings. Sweet and tender; cooked like wax beans.

Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 15 lbs., \$3.75.

Prices subject to market changes.

PARSLEY

SOW thickly early in April, in rows one foot apart and one-half inch deep; thin out the plants to stand six inches apart in the rows.

The seed is of slow germination; taking from three to

four weeks to make its appearance, and often failing to come up in dry weather. To assist its coming up quicker, soak the seed a few hours in warm water or sprout in damp earth, and sow when it swells or bursts. For winter use protect in frame or light cellar.

One ounce to 150 feet of drill.

Norwood. Fine curled leaves of rich dark green, compact growth and finest quality. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Extra Double Curled. Beautifully crimped and curled. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Moss Curled. Fine for garnishing. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Plain. A hardy variety having dark green leaves which are not curled. It is a little stronger in taste and much esteemed for flavoring soups, stews, etc., as well as for drying. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c.

Hamburg Turnip Rooted. The fleshy roots resemble a parsnip and is used for flavoring soup, stews, etc. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

PARSNIP

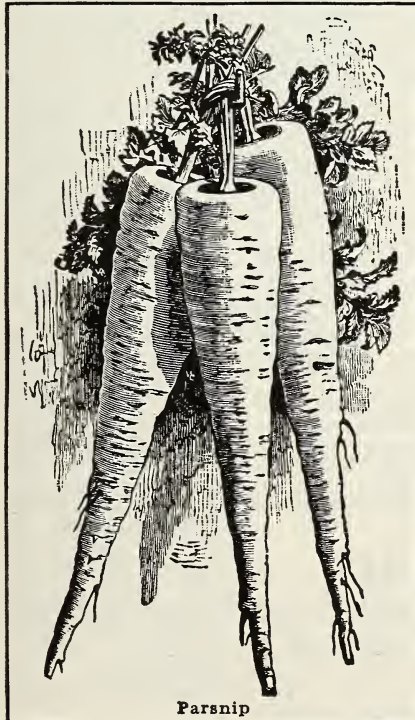
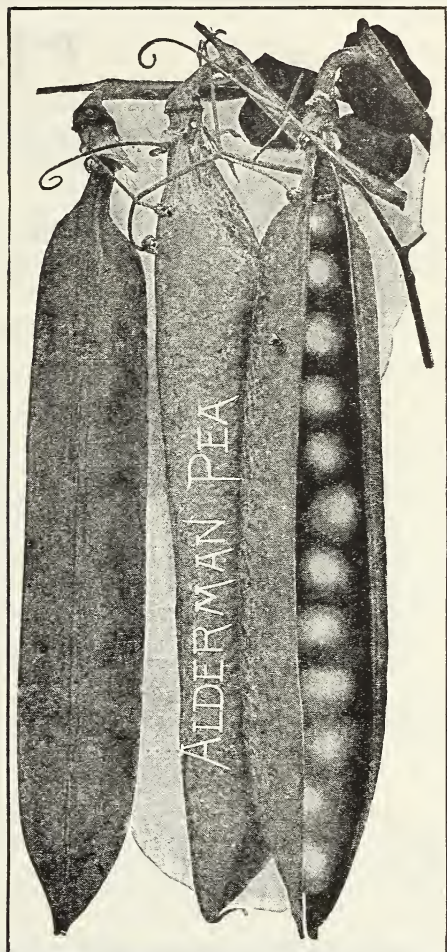
SOW seed early in Spring, in deep, rich soil in drills. Scatter the seeds thinly and cover evenly with the rake. After the appearance of the plant the soil must be stirred frequently until the leaves cover the ground. The seed is slow to germinate, and is frequently a long time in coming up; will vegetate sooner by steeping 6 to 12 hours in a liquid manure, diluted with water, and mixed with sand before sowing. When well up thin out to 5 or 6 inches apart in the rows. Unlike Carrots, they are improved by frost, and it is usual to take up in fall a certain quantity for winter use, leaving the rest in the ground until Spring, to be dug as required.

One ounce for 200 feet of drill—5 to 6 pounds for an acre.

Large Sugar, or Hollow Crown. The best variety; roots long, very smooth, white, tender, sugary and of excellent flavor. This strain was made by careful selection of roots growing to an ideal shape and having the distinct hollow crown.

Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Student, or Guernsey. A good half-long variety, smooth, sweet and of delicate flavor. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.



PEANUTS

Shell the nuts and plant in April or May in drills 2 to 2 ½ feet apart, dropping 2 seeds 12 to 15 inches apart in the drills. If to be sent by mail, see "Postage", page 3.

Spanish. The earliest variety grown; pods are small, but remarkably solid and well filled. . . Pkt., 5c; ½ lb., 15c; lb., 25c.
Mammoth Virginia. The most profitable variety to grow as a market crop, though not so early as Spanish; more easily cultivated; very erect stems and upright foliage with large pods and kernels. . . Pkt., 5c; ½ lb., 15c; per lb., 25c

PEPPER

SOW early in the Spring in hotbeds, if possible, and transplant to the open ground when the weather is favorable, or sow in drills in warm, mellow soil, late in the Spring and then thin out so as to stand 18 inches apart. One ounce of seed for 1,500 plants.

Golden Dawn. Of same shape and size as Large Bell, but of more delicate flavor; color yellow. . . Pkt., 10c; oz., 50c; ¼ lb., \$1.75.

Celestial. Fruit conical in shape, one to two inches long; green from the blossom, turning alternately to lemon, golden and scarlet. . . Pkt., 10c; oz., 50c; ¼ lb., \$1.75.

Chinese Giant. Flesh is thick, mild and very sweet. Largest Pepper grown. . . Pkt., 10c; oz., 60c; ¼ lb., \$2.25.

Ruby King. Large size, ruby red pods; flesh exceedingly thick, sweet and mild. . . Pkt., 10c; oz., 50c; ¼ lb., \$1.75.

Spanish Monstrous. Early and productive; flesh very sweet and mild. . . Pkt., 10c; oz., 50c; ¼ lb., \$1.75.

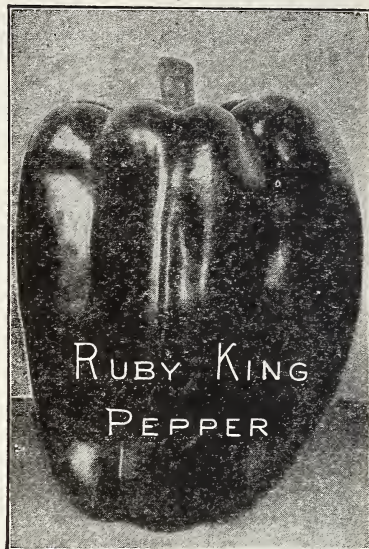
Sweet Mountain. Similar in shape to the Bell, but grows larger; rind thick, tender and fleshy. . . Pkt., 10c; oz., 50c; ¼ lb., \$1.75.

Large Bell, or Bull Nose. Large and early, rind very thick; color glossy red; flavor mild and pleasant. . . Pkt., 10c; oz., 50c; ¼ lb., \$1.75.

Pimento. The fruit is of good size, medium length and attractive color. The flesh is thick and solid, mild and of fine flavor. Desirable for salads and stuffed peppers. The plants are vigorous and upright, about two to two and one-half feet high, with short, broad, dark green leaves. The fruit is deep green when young, becoming deep red as it matures. . . Pkt., 10c; oz., 40c; ¼ lb., \$1.50.

Long Red Cayenne. From 3 to 4 inches long, bright-red color, very productive and hot. . . Pkt., 10c; oz., 50c; ¼ lb., \$1.75.

Small Cayenne, or Red Chili. Pods 1 ½ to 2 inches long, very hot; used for making pepper sauce. . . Pkt., 10c; oz., 50c; ¼ lb., \$1.75.



PUMPKIN

THEY are generally planted in cornfields, but they can not grow as large or fine as if the vines were not shaded. A good plan would be to plant a few seeds in the potato patch, as they are less apt to be injured by the crop of potatoes than the corn. One ounce for 15 hills.

Calhoun. The outside is a creamy brown; the inside flesh is a deep salmon yellow; thick and fine grained, and the seed cavity very small. It cooks very yellow and makes pies of high, rich color. . . Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.25.

Small Sugar. Fruit of small size, averaging about ten inches in diameter, of excellent keeping qualities, flattened or slightly ribbed. Skin deep orange-yellow, flesh very sweet. This should be more generally grown, as it is really one of the best for pies. . . Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.25.

Cashaw Crook-Neck Striped. Grows to a medium size; flesh light yellow, and is the best variety for table use. . . Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.50.

Golden Cashaw. Beautiful golden-orange color; an improvement on the old Cashaw. . . Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.50.

Tennessee Sweet Potato. Medium size, pear-shaped, a little ribbed, color creamy white, sometimes lightly striped with green. . . Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.25.

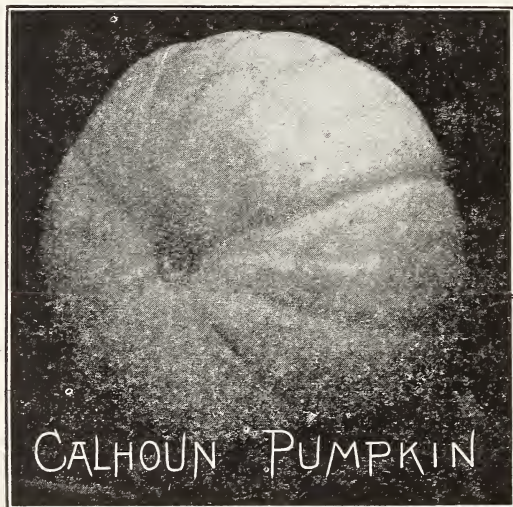
Japanese Pie. Is very productive, ripens early, of medium size, good keeper, and weighs 15 to 20 pounds each. The flesh is a rich salmon color. . . Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.25.

Large Cheese. An excellent keeper, color bright orange. . . Pkt., 5c; oz., 10c; ¼ lb., 25c; per lb., 85c.

Mammoth Tours. A productive French variety, which grows to an immense size. . . Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.25.

Kentucky Field. Good for cooking purposes and for feeding stock. . . Pkt., 5c; oz., 10c; ¼ lb., 25c; per lb., 60c.

Connecticut Field. A large, yellow variety. . . Pkt., 5c; oz., 10c; ¼ lb., 25c; per lb., 75c.



RHUBARB

GOOD plants are easily grown in any good garden soil. Sow in April in drills 18 inches apart, and cover the seed with fine soil, pressing it down firmly. When the plants are strong enough, thin out to 6 inches. Keep soil loose and free from weeds. In Fall or Spring following, transplant to the permanent bed, 4 feet apart each way, in deep, warm and very rich soil. The more manure the better stalks. One ounce will produce 600 plants.

Linnaeus. Best sort for general purposes; early, large and tender. . . Pkt., 5c; oz., 20c; ¼ lb., 60c. | **Victoria.** Very large; later than Linnaeus. . . Pkt., 5c; oz., 20c; ¼ lb., 60c.

For Rhubarb Roots, see Vegetable Plants.

RADISH

SOW early and often. In good, warm, fibrous loam, especially if quite sandy, Summer Radishes will make a crop in 4 to 6 weeks from sowing. The soil should be well prepared, and fertilizers may be used freely. Have the rows a foot apart, and sow just seed enough so that they will not require thinning. Any little spot that becomes available during Summer may be utilized for planting Radishes. The short or turnip-rooted sorts are quickest and easiest to grow, and good for forcing also. On greenhouse bench or in frames the rows need not be more than 4 inches apart. Sow winter Radishes in July and August. They grow best in the cooler Autumn weather. Take them up before severe freezing and store in sand in the cellar or in a pit, where they will keep tender and crisp all Winter.

One ounce to 100 feet of drill—8 to 10 pounds for an acre.
Special prices given to market gardeners.

McCullough's Cincinnati Market

We were the introducers of this remarkable radish, which has proven one of the best long Radishes ever offered. It is largely grown by the Cincinnati market gardeners. The tops are so small that the radishes may stand touching each other in the rows. They grow perfectly straight and smooth and from six to seven inches in length. Their attractive, glossy, scarlet skin is very thin and the flesh crisp and brittle, and of delightful pungent flavor. It is the finest Long Red Radish for forcing and out sells any other that is put in competition with it on the market. Being long standing, it is also an extra fine sort for the home garden, entirely exempt from any tendency to become pithy or hollow.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Crimson Giant Forcing. This variety is suitable both for forcing or early planting out of doors. This Radish will grow double the size of other round red forcing Radishes and still remain solid and juicy. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

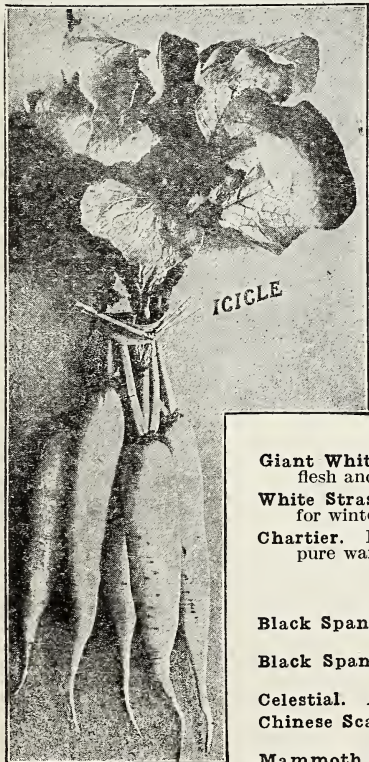
Non Plus Ultra. The smallest topped and earliest forcing Radish. Roots small, round; deep rich scarlet; very crisp and tender; white flesh. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Rosy Gem. Extremely early, maturing in 25 days; largely used for growing both under glass and outdoors. It is round, bright scarlet and has a white tip.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Earliest White Globe Forcing. The earliest white olive-shaped Radish in existence, very small root, small top; flesh white, tender and crisp. It is particularly adapted to forcing in greenhouse or hot-bed, also does well in open ground. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Early Scarlet Globe. One of the earliest and best sorts for forcing; flavor mild; crisp and juicy; also good for garden culture. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.



Early Scarlet Turnip. A small top variety, of quick growth, mild and crisp. It is a standard sort for early planting in the open ground.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Scarlet Turnip, White Tipped. Bright scarlet color, gradually fading off to pure white at the base, tender and mild in flavor; early.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Early White Turnip. An early, crisp, turnip-shaped Radish of pure white color.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

French Breakfast. A variety of quick growth, mild and tender; one of the best for forcing. Oval form, scarlet, tipped with white.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

McCullough's Norwood Long White

Fine long white Radish, with beautiful shape; skin and flesh pure white.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Long Scarlet, Short Top. Long, of a deep scarlet color; flesh white, crisp and of good flavor. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

White Icicle. The finest long, white Radish; ready for use in 25 days, and continue to grow, fully retaining their crisp tenderness and mild flavor until quite large. They are transparent white, have small tops, allowing close planting; remains in good condition while growing for a long time.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Giant White Stuttgart. Quick growing and therefore early, of the largest size, and both flesh and skin are pure white. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

White Strasburg. Oblong, tapering shape, skin and flesh pure white, firm and brittle, fine for winter use. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Chartier. Half-long, of quick growth; color deep pink above and gradually blending into a pure waxy white at root. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Radish—Winter Varieties

Black Spanish, Oval Shape. A black valuable Winter sort.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Black Spanish Long. Differs from the above only in shape.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Celestial. An all-season white Radish. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Chinese Scarlet. Half-long, fine Winter sort, keeps well.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.

Mammoth White Winter. A giant white-fleshed Fall Radish.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; per lb., \$1.50.



SALSIFY OR VEGETABLE OYSTER

COMMONLY called Vegetable Oyster. The cultivation is the same as directed for Parsnips, and it will keep over winter, in the ground where grown, in the same way as Parsnips. **One Ounce Will Sow 50 Feet of Drill.**

Long White French. Roots of medium size, white and smooth. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c.
Mammoth Sandwich Island. This variety will average nearly double the size of the White French, and is of excellent quality. The best variety for market gardeners' use. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c.

SPINACH

FOR Spring and Summer use, sow either broadcast or in drills as early as the ground can be worked. The Fall sowing is the main one with our market gardeners, which is done from August to October, and by careful attention they have it in marketable condition throughout the entire Winter and Spring. If the land is dry the seed should always be rolled or trampled in, for if the soil is loose the hot air shrivels the seed, so that it will not germinate. **One ounce for 100 feet of drill—10 to 12 pounds for an acre.**

One of the most important for market gardeners, also for the kitchen garden. A quick-growing, round-seeded variety, producing in abundance, thick, dark green, slightly crumpled leaves; in large demand for either Spring or Fall sowing.
McCullough's Norwood Savoy. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Bloomsdale Savoy. The hardest large Savoy leaved, curled and crimped with thick, fleshy leaves, good for family and market purposes.
 Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.

Longest Season. A distinct hardy variety, with large, thick, fleshy, dark green leaves, which are produced in great abundance in any season. It is slower in running to seed than any other variety now in use.
 Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00.



New Zealand. Yields an abundance of the tenderest Spinach during the hottest months of the year, or in dry arid localities where the ordinary Spinach runs to seed. The seed is sown where the plants are to stand, in May, or earlier in a hotbed and transplanted, and the plants will continue to yield a supply of good leaves of excellent quality during the entire Summer, requiring scarcely any attention. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

SQUASH

IT IS useless to sow until the weather has become settled and warm. Light soils are best suited for its growth. Prepare hills for the seeds by incorporating 2 or 3 shovelfuls of well-rotted manure with the soil for each hill. Plant the bush varieties, from 3 to 4 feet each way, and the running sorts from 6 to 8 feet. Eight or ten seeds should be sown in each hill, thinning out after they have attained their rough leaves, leaving 3 or 4 of the strongest plants, after which cultivate same as Cucumbers. To repel the Squash vine borer put a handful of tobacco dust close around the plants. For Yellow-striped beetle and blight, spray early and often with Bordeaux Arsenate of Lead Mixture.

One Ounce of the Bush Varieties for 40 Hills, or of the Large-Seeded Kinds, 15 Hills. Two or Three Pounds of the Bush, and 3 to 4 Pounds of the Large-Seeded for an Acre.

Summer Varieties

Mammoth White Bush. The best early variety for market or shipping. It grows to a large size; scalloped like a patty-pan.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Early Yellow Bush. An early, flat, scallop-shaped variety; color yellow, flesh pale yellow and well flavored.

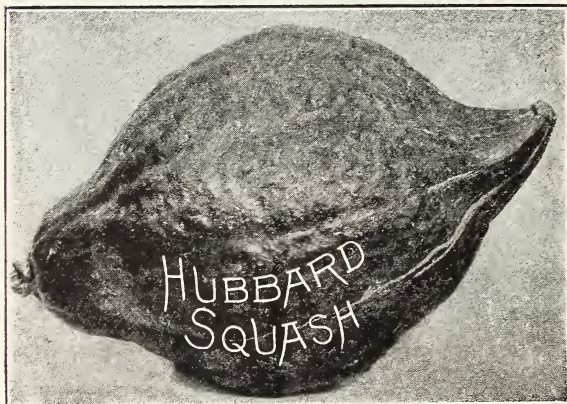
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Summer Crook-Neck. Covered with warty excrescences; color bright yellow; shell very hard when ripe.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Vegetable Marrow. Skin a greenish-yellow, flesh white, grows 9 to 18 inches long.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.



Fall or Winter Varieties

Hubbard. Standard Winter Squash; grown more extensively than any other late variety; color dark green, shell extremely hard, flesh dry, fine grained and sweet; excellent keeper.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; per lb., \$1.50.

Warted Hubbard. This strain, without doubt, grows the finest Hubbard in existence. The wartiness indicates a very hard shell, which is one of the features in a long-keeping Squash; it also denotes extra choice quality—the harder and more warty the shell of a Hubbard Squash is the more delicate and sweet the flesh will be found to be.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; per lb., \$1.50.

Delicious. Resembles the old Hubbard, having a dark olive-green hard shell, weight from 5 to 10 lbs. For table use it can not be excelled, the flesh being remarkably thick, fine grained, sweet and of rich flavor. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Fordhook. A Winter Squash of great merit. Of handsome bright yellow color outside and straw-yellow within. The flesh is dry and sweet.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

Mammoth Chili. Rich orange-yellow; flesh thick and of good quality for making pies; grows to an enormous size; a valuable sort for feeding stock.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; per lb., \$1.50.

Boston Marrow. A popular winter variety; quality unexcelled.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25.

TOMATO

SOW in a hotbed, green-house or window in a sitting room, where night temperature is not less than sixty degrees, about the first week in March, in drills five inches apart and half an inch deep. When the plants are about two inches high they should be set out in boxes three inches deep, four or five inches apart, in same temperature, or moved into small pots, allowing a single plant to a pot. They are sometimes transplanted a second time into larger pots, by which process the plants are rendered more sturdy and branching. About the middle of May, the plants may be set in the open ground. They are planted for early crops on light, sandy soil, at a distance of three feet apart, in hills in which a good shovelful of rotted manure has been mixed. On heavy soils, which are not suited for an early crop, they should be planted four feet apart. Water freely at the time of transplanting and shelter from the sun a few days until the plants are established.

For late use, sow in a sheltered border in May, and set out the plants in July; the green fruit can be picked off before frost, and ripened under glass. By training the tomato vines on trellises or tying to stakes, they will increase in productiveness, the fruit will ripen better, and be of finer quality.

One Ounce of Seed Will Produce about 2,000 Plants; ¼ Pound to the Acre.

Acme. Very early and productive; fruit medium sized and a dark, rich red, slightly tinged with purple; very solid and smooth. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

John Baer. An early tomato; produces large, bright red, solid tomatoes and has a mild and deliciously sweet flavor. Fruit is solid and makes a good shipping tomato. . . . Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

Earliana. The earliest tomato, of good size and flavor; fruit is deep scarlet, of medium size, averaging 2½ inches in diameter; with solid center and slightly acid flavor. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Detroit. A second early purple tomato; bears uniformly large, handsome, smooth, globe-shaped fruit of excellent quality; is also a desirable variety for shipping. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Bonny Best. Fruit of good size, bright red color, smooth, solid and uniform. A second early and very productive. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

June Pink. Resembles the Earliana in habit of growth and shape of fruit, but the color is pink. The fruit begins to mature very early; measures 3 inches in diameter and is of excellent quality. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

McCullough's Norwood. The plants are strong and vigorous, bearing an abundance of large, smooth fruit of a beautiful purplish crimson color which is produced in clusters of four to six; is large, of perfect shape, and retains its size until late in the season. The flesh is remarkably thick, firm and solid and of the finest quality, with few seeds. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Trucker's Favorite. One of the finest large-fruited purple sorts. The plants are of strong growth and productive. Fruit is large size, deep through, very smooth and regular, free from cracks, solid, meaty, with small seed cells and fine flavor. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Dwarf Champion. Of dwarf, stiff, distinct, upright growth, scarcely needing support; early and prolific; smooth, medium-sized fruit of pinkish purple color. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Dwarf Stone. The fruit is produced in clusters of 3 to 5; averaging 4 inches in diameter, and 2½ inches in depth, bright scarlet color, smooth and regular. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Dwarf-Giant. This is the largest fruited of all dwarf Tomatoes. They are produced in clusters of four to six. The color is a rich purple-crimson, and the depth of color is maintained throughout the entire season. . . . Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

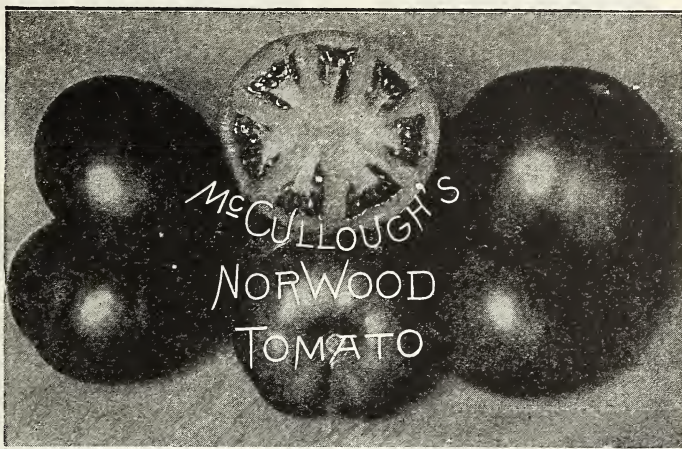
Cincinnati Purple. A valuable variety, especially adapted for canning and shipping. It is very large, color a dark purplish red. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Beauty. Rich, glossy crimson, with a slight purple tinge. The fruit grows in clusters of four to five, is of large size, very smooth, and retains its character until late in the season. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Favorite. A large, handsome and uniform-shaped tomato; solid, smooth and bright scarlet. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Perfection. Almost round fruit; smooth, tough skin of brilliant scarlet; ripens thoroughly, solid and of rich flavor. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Globe. A beautiful globe-shaped variety; large size, smooth, firm fleshed, few seeds. Ripens evenly, color, a beautiful glossy rose, tinged purple. . . . Pkt., 10c; oz., 50c; ¼ lb., \$1.50.



Stone. Fruit very large and deep; bright scarlet, smooth, solid and firm fleshed, of the finest quality. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Matchless. A standard main crop, bright red variety, producing enormous crops of finest scarlet fruit. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Buckeye State. The tomatoes are borne in immense clusters of four to eight large fruit. Color rich, glossy crimson, with a slight purple tinge. . . . Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

Ponderosa. The fruit is of large size, and purplish-pink color, with firm, meaty, rich red flesh; unequaled and delicious, either sliced, cooked or canned; a healthy, luxuriant grower and continuous yielder from early in the season until frost. . . . Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

Comet Forcing. Superior red variety for forcing under glass, medium sized fruit; solid, round, smooth and of excellent flavor. . . . Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

Golden Queen. Large, smooth fruit, of a beautiful golden color; quality excellent, attractive for slicing and mixing with sliced red sorts. . . . Pkt., 5c; oz., 40c; ¼ lb., \$1.00.

Small-Fruited Tomatoes

THE following small-fruited varieties are used for making preserves, and are also quite ornamental while growing in the garden:

Pear-Shaped. A small preserving tomato, of pear-shape, and bright red color. . . . Pkt., 5c; oz., 40c.

Red Cherry. Small, round fruit, resembling cherries; used for preserves. . . . Pkt., 5c; oz., 40c.

Yellow Plum. Bright lemon-colored, oval, small sized; used for preserves. . . . Pkt., 5c; oz., 40c.

Strawberry, Winter Cherry or Husk. Low, spreading plants; yellow fruit, ½ inch in diameter, surrounded by a husk. . . . Pkt., 5c; oz., 40c.

Special prices given to market gardeners and truckers.

TOMATO PLANTS are a specialty of ours. See Vegetable Plants.

TOBACCO

THE seed should be sown as early as possible after danger of frost is over. A good plan is to burn a quantity of brush and rubbish in the spring on the ground intended for the seed-bed, then dig and thoroughly pulverize the earth and mix the ashes, after which the seed may be sown and covered very lightly.

Connecticut Seed Leaf. A long leaf, fine in texture. . . . Pkt., 10c; oz., 40c.

Conqueror. It ripens early, and is easily cured to the brightest color. . . . Pkt., 10c; oz., 40c.

Havana. A medium leaf, fine texture; commands a high price. . . . Pkt., 10c; oz., 40c.

White Burley. Extra stock, grown largely for the manufacture of fine-cut. . . . Pkt., 10c; oz., 40c.

Stand-Up Burley. The leaves instead of drooping have a more erect position on the plant, turning upward rather than down—hence the name "Stand-up." It is fast becoming the most popular type of Burley and largely grown by planters in all Burley sections. . . . Pkt., 10c; oz., 40c.

Zimmer's Spanish. One of the most popular and extensively grown. . . . Pkt., 10c; oz., 40c.

TURNIP

THE soil for Turnips should be rich and mellow. For an early crop, sow early in the Spring, in drills about a foot apart or broadcast and thin out. For a general crop, sow from the first of July to the last of August, in drills 18 to 20 inches apart, and thin out the plants to 8 or 10 inches. To destroy the fly, which is very destructive to the Turnip crop, use "Hammond's Slug Shot." Sow an abundance of seed and thin out. Should the crop be destroyed, harrow the ground immediately and sow again. One ounce will sow 150 feet of drill; 1 to 1½ pounds to the acre.

Purple-Top White Globe. A variety of decided merit. Of globular shape, very handsome and of superior quality, either for the table or stock. It is a heavy producer, early, and of rapid growth; an excellent keeper. Pkt., 5c; oz., 15c; ¼ lb., 55c; per lb., \$2.00.

Extra Early Purple Top Milan. At least two weeks earlier than any other. It is somewhat flattened, white with purple top; flesh snow-white, fine grained and delicate flavor. Pkt., 5c; oz., 20c; ¼ lb., 60c; per lb., \$2.00.

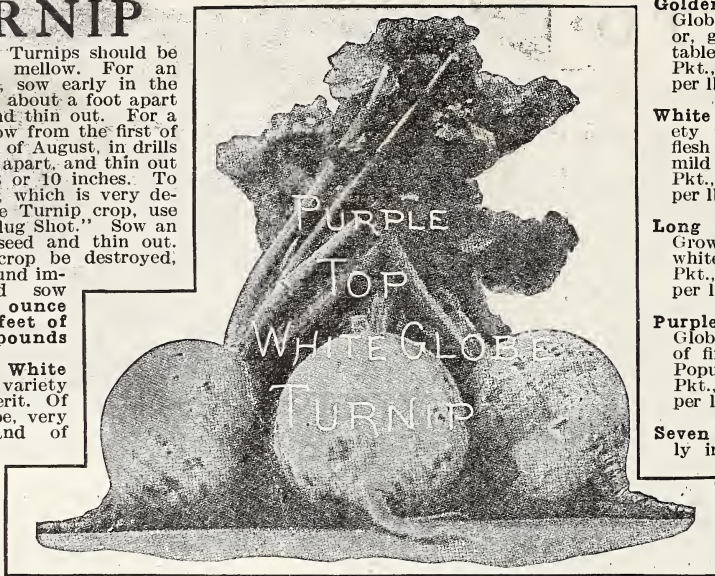
Red or Purple Top, Strap-Leaf. This is the most popular variety grown for table purposes; an early, flat, white Turnip, with purple top, of excellent quality. The best variety for general use. Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.40.

Early White Flat Dutch. An early white-fleshed variety of quick growth, mild flavor and excellent quality. Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.40.

Snowball. Extra early; a variety of sterling merit, perfectly round, early, pure white, very solid, sweet, short top. Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.40.

Large White Globe, Strap-Leaf. Flesh white, firm and crisp; a very desirable early variety. Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.40.

Amber Globe. Quite productive, solid flesh and attractive color; desirable for either table use or for stock feeding. Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.40.



Golden Ball, or Orange Jelly. Globe-shaped, bright yellow color, good keeper and a superior table variety or for stock. Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.40.

White Egg. An egg-shaped variety for Spring or Fall sowing; flesh white, firm, fine grained, mild and sweet. Pkt., 5c; oz., 15c; ¼ lb., 50c; per lb., \$1.60.

Long White, or Cow Horn. Grows partly above ground, flesh white, fine grained and sweet. Pkt., 5c; oz., 15c; ¼ lb., 50c; per lb., \$1.75.

Purple Top Yellow Aberdeen. Globe-shaped, with yellow flesh of fine quality, a good keeper. Popular for table or stock. Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.40.

Seven Top. Cultivated extensively in the South for the tops, which are used for greens. It is very hardy and will grow all Winter. Does not produce a good root. Pkt., 5c; oz., 15c; ¼ lb., 40c; per lb., \$1.40.

Swede or Rutabaga Turnip

FOR Rutabagas, sow seed in seed-bed in Spring and transplant to good, warm soil, in rows at least 2 feet apart and 8 or 10 inches apart in the rows, or sow in open ground during June and early July. Take up the roots just before winter, top and store in cool cellar or pit outdoors.

American Purple Top. Very hardy and productive; flesh yellow, solid, sweet, good for stock or table use. Pkt., 5c; oz., 15c; ¼ lb., 55c; per lb., \$2.00.

Skirving's Purple Top. An important variety of large size and strong growth, a heavy cropper and one of the best for field culture. Pkt., 5c; oz., 15c; ¼ lb., 55c; per lb., \$2.00.

Budlong's Improved. White, very sweet, much milder flavor than any of the other sorts, globe-shaped, skin a cream yellow. Pkt., 5c; oz., 15c; ¼ lb., 55c; per lb., \$2.00.

Long Island Improved Purple Top. A uniform large rooted, quick growing, yellow fleshed sort. Pkt., 5c; oz., 15c; ¼ lb., 55c; per lb., \$2.00.

VEGETABLE PLANTS AND ROOTS

POSTAGE:—Prices do not include prepayment by mail or express. If wanted by mail, add for postage, 5c per dozen: 25c per 100 on Cabbage, Cauliflower, Celery and Sweet Potato Plants; 10c per dozen on Egg Plants, Pepper and Tomato Plants. Cannot assume any responsibility for Vegetable Plants sent via Parcel Post.

ASPARAGUS ROOTS

DEEP, warm, rich, loamy soil; deeply and thoroughly stirred, is required for permanent bed. Use manure and fertilizers freely. Make furrows 2 to 4 feet apart and 8 to 10 inches deep. Set the two-year-old roots 18 to 24 inches apart in the bottom of furrows and cover lightly at first. Gradually fill in with soil and old compost. In early Spring, fork or plow the bed shallow and carefully, or pulverize the surface by harrowing. Give clean cultivation until Fall; then cover with manure or compost. Second season after planting hill up the rows, especially for blanched "grass," and cut sparingly for use. After that the bed will give full crops. In the Fall, as soon as the tops are ripe and yellow, they should be cut and burned. Two-year-old roots will insure the best and earliest results.

Strong two-year-old Roots of the following varieties—Argenteuil, Barr's Mammoth, Columbian Mammoth White, Conover's Colossal, Palmetto.

All the above varieties, per doz., 25c; per 100, \$1.50. If wanted by mail, add 5c per doz., 15c per 100 for postage.

CABBAGE PLANTS. (Ready about April 1st.)

Early Jersey Wakefield. Per 100, 60c.
Louisville Drumhead. Per 100, 60c.
Premium Late Flat Dutch. Per 100, 60c.

CAULIFLOWER PLANTS. (Ready April 1st.)

Earliest Dwarf Erfurt. Per doz., 25c; per 100, \$1.75.
Early Snowball. Per doz., 25c; per 100, \$1.75.

CELERY PLANTS. (Ready June and July.)

McCullough's Paris Golden Yellow. Golden Self-Blanching, Golden-Hearted Dwarf, Giant Pascal, Triumph. All the above, per 100, 60c.

We are Large Growers of Vegetable Plants. Have Them Fresh Every Day in Season. Special Prices on Larger Lots.

CHIVES. (Ready April 1st.)

Good Clumps. 10c each; per doz., \$1.00.

EGG PLANTS. (Ready about May 15th.)

Black Beauty. Per doz., 50c.

HORSERADISH SETS. (Ready April 1st.)

Per doz., 15c; per 100, 75c. (By mail—per doz., 25c; per 100, \$1.00—postpaid.)

PEPPER PLANTS. (Ready about May 15th.)

Large Bell, or Bull Nose. Per doz., 30c.
Ruby King. Per doz., 30c.
Long Red Cayenne. Per doz., 30c.

SWEET POTATO PLANTS. (Ready about June 1st.)

Jersey Yellow or Nansemond. Per 100, 50c.

TOMATO PLANTS. (Ready about May 1st.)

Transplanted plants offer many advantages over seedlings; they produce fruit much earlier and are more easily shipped.

Transplanted Plants. Leading sorts. Per doz., 25c; per 100, \$1.75.

RHUBARB ROOTS.

Small Clumps (by express or freight only). Each, 10c; per doz., \$1.00.

Large Clumps (by express or freight only). Each, 25c; per doz., \$2.50.

POTATOES. (See Field Seed, etc.)

McCullough's Selected Flower Seeds

Every year we carefully revise our list of flower seeds, add a number of new sorts and discard all inferior varieties. Our collection will be found to contain everything really desirable. Our stock of seeds is of the highest possible quality.

YOU will notice that all of our descriptions of flowers are classified as "annual," "hardy annual," "tender annual," "perennial," "biennial," etc. These descriptions, when properly understood, will tell much about planting.

ANNUALS attain full growth from seed, bloom and die in one season. Sow **HARDY ANNUALS** outside in March or April, or earlier indoors for transplanting outside. Hardy Annuals may be sown in the fall for earlier spring blooming.

HALF HARDY and TENDER ANNUALS should be sown in the house or hot-bed and not be sown or transplanted outside until the weather is settled and warm.

BIENNIALS are plants that bloom the second year from seed, and then die. Many of these will bloom the first year if sown early. Sow under same conditions as perennials.

PERENNIALS are plants that bloom the second year from seed, and the plant lives and blooms for many years. If sown in early spring, many perennials will bloom the first year from seed. Tender and half-hardy perennials are best sown in spring after frost is over. Hardy perennials may be sown in the late summer and early fall (July to October) for next year's flowers.

TENDER or GREENHOUSE means the plant will not stand the least frost. All such must be planted late in spring, or in a greenhouse.

HARD SHELLED SEEDS like Canna, Brazilian and Japanese Morning Glory, Moon Vine, etc., should be soaked in warm water 36 hours before planting.

HOW TO SOW FLOWER SEED: A common mistake in sowing flower, as well as other seeds, is covering too deeply. The exception to this is the Sweet Pea, which is seldom planted deep enough. As a general rule, cover small seeds only to the depth of the thickness of the seeds; or, with medium-sized seeds, like Balsams, Zinnias, etc., half an inch or so is none too much. Such fine seeds as Petunias, Portulacas, etc., need only to be pressed into the soil with a piece of board. Always press the earth after sowing all flower seeds, else there is danger of their drying up before the roots can get firm hold of the soil. Seeds of the hardier Annuals may be sown where they are to grow, but, as a rule, it is preferable to transplant, as the plants are generally stronger and stand the drought better. During very dry weather, and when the seedlings are first set out, they should be watered frequently. Provide some support for all such plants as require it.

The weeds should be kept down and the ground loosened often, so that the plants will receive the full benefit of the rains and dews, which they will not if the ground is allowed to become hard and baked.

ABUTILON (Flowering Maple)

ELEGANT flowering plants of strong growth and easy cultivation, producing various colored, drooping bell-shaped flowers. Sown indoors any time before April, they will produce plants that will flower outdoors the first season and indoors all Winter. *Half-hardy Perennial.*

1—**Fine Mixed.** Of choice varieties and colors. . . 10c pkt.

ACHILLEA (Milfoil, or Yarrow)

2—**Ptarmica "The Pearl."** Grows about two feet high, and from Spring till frost is covered with heads of purest white double flowers. Easily grown from seed, flowering the first season if sown early. *Hardy Perennial.* 10c pkt.

ACONITUM (Monk's Hood, or Wolfsbane)

3—**Napellus.** Grows in any good garden soil, producing long spikes of curiously-shaped blue and white flowers, adapted for planting among shrubbery or in shady corners of the garden; 3 to 5 feet. *Hardy Perennial.* 5c pkt.

ACROCLINIUM

4—**Double Mixed.** An "Everlasting," growing about 15 inches high, bearing white or rosy-pink flowers, which, when cut in the bud state, can be dried and used in winter bouquets. *Half-hardy Annual.* ¼ oz., 15c; 5c pkt.

ADLUMIA

(Mountain Fringe, Allegheny Vine, or Climbing Fumitory)

5—**Cirrhusa.** A graceful climber, but, as it resows itself year after year, it might be considered perennial. The feathery foliage closely resembles that of the Maiden-hair Fern. The flowers are tube-shaped, flesh-colored, and completely cover the plant. For covering trellises, stumps of trees, etc., it is very desirable. Flowers the first year from seed. *Hardy Biennial.* 5c pkt.

AGERATUM (Floss Flower)

ONE of the very best bedding plants, being literally a sheet of bloom from early summer till frost. Unlike many bedding plants, their flowers are not liable to be spoiled by rain, nor do the colors fade out. The blue varieties are without doubt the most satisfactory bedding plants of this color for our trying climate. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May. *Half-hardy Annual.*

6—**Blue Perfection.** This is the darkest-colored of all large flowering Ageratums. Color, deep amethyst-blue; compact growth; fine bedder. (See cut.) ¼ oz., 50c; 5c pkt.

7—**Little Blue Star.** Of dwarf and even growth; the tiny bushes, not over 4 to 5 inches high, are densely covered with bright blue flowers; a fine variety for edging. . . 3 pkts., 25c; 10c pkt.

8—**Little Dorrit.** Azure blue, 9 inches. ¼ oz., 40c; 5c pkt.

9—**Album.** White, profuse bloomer, 18 inches. 5c pkt.

AGROSTEMMA

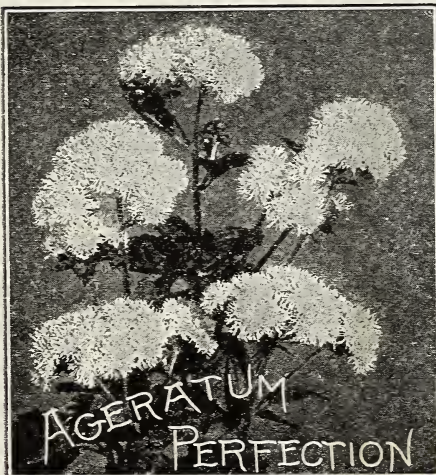
(Rose of Heaven, Mullein Pink)

AN attractive, free-flowering plant of easy culture, producing flowers on long slender stems like a single pink. Blooms the first season. Fine for cutting; 1 to 2 feet. *Hardy Perennial.*

10—**Mixed Varieties.** 5c pkt.

AFRICAN GOLDEN DAISY. (See *Dimorphotheca Aurantiaca*.)

ALLEGHENY VINE. (See *Adlumia*.)



All 5c Packets of Flower Seeds are 6 Packets for 25c. All 10c Packets are 3 Packets for 25c.

ALYSSUM (Mad-Wort)

PRETTY little plants for beds, vases, baskets, edgings or rockwork, blooming profusely all Summer; useful also for Winter-flowering. *Hardy Annual.*

- 11—Little Gem, or Carpet of Snow.** We know of no other flower which is so particularly well adapted for borders, ribbons, etc. The plants commence to bloom when quite small, and will flower all Summer until late in the Fall. This habit, with its fragrance, makes it indispensable. Keep the seed pods sheared off the plants and they will bloom until killed by frost. Sow the seeds wherever the plants are to remain. If too thick, thin out. To prevent sowing too thickly, mix the seed with sand before sowing. (See cut.)
 $\frac{1}{4}$ oz., 15c; oz., 50c; 5c pkt.

- 12—Lilac Queen.** Is of dwarf, compact habit and the deep, lavender-like flowers are borne in profusion.
 10c pkt.

- 13—Sweet Alyssum.** Of trailing habit; flowers white. The popular old-fashioned sort, the best for broad edges and vases. It begins to bloom early in the season, and blooms until frost. It is a neat, thrifty, healthy grower and should be cultivated by everyone who wants an all around good plant. $\frac{1}{4}$ oz., 10c; oz., 25c; 5c pkt.

AMARANTHUS

BRILLIANT foliaged plants, easily raised from seed, either by starting them early indoors or sown outdoors in May. Grow from 2 to 4 feet high; are useful in borders of tall plants or for the center of large beds. They thrive best in a hot, sunny location, not too rich soil, and given sufficient room to develop their full beauty. *Hardy Annual.*

- 14—Caudatus.** (Love Lies Bleeding.) Bloodred; drooping racemes. 5c pkt.

- 15—Tricolor Splendens-Joseph's Coat.** 2 $\frac{1}{2}$ feet. The inner foliage is of blackest bronze, tipped with green, while the outer foliage is bright scarlet and gold. The colors are especially brilliant if grown in poor soil. 5c pkt.

AMPELOPSIS

- 16—Veitchi.** (Boston or Japanese Ivy). A *Hardy Perennial* climber from Japan. The best and most popular climber for covering brick or stone walls.
 $\frac{1}{4}$ oz., 15c; oz., 50c; 10c pkt.

ARABIS (Rock Cress)

- 17—Alpina.** Early Spring flowering plant, especially adapted for edging and rockery; plants form a dense carpet completely covered with pure white blossoms in May; 6 inches. *Hardy Perennial.*
 5c pkt.

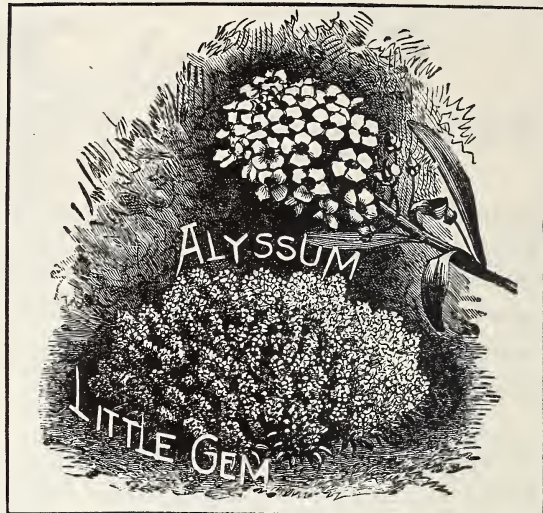
ARCTOTIS

(African Daisy)

- 18—Grandis.** Forms much-branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals pale lilac-blue; blooms early in July and continues until hard frost. It delights in a sunny situation. *Half-hardy Annual.* 10c pkt.

ASPARAGUS

- 19—Plumosus Nanus.** (Asparagus Fern.) This graceful climbing Asparagus has fine foliage, and will last for weeks after being cut. It is an excellent house plant. *Greenhouse Perennial.* ... 10c pkt.
- 20—Sprengeri.** (Emerald Feather.) One of the best plants to grow in baskets, for greenhouse or for outdoors in the summer. The fronds frequently grow 4 feet long, and are now considered indispensable in all fine decorations; grows readily from seed. *Greenhouse Perennial.* 10c pkt.



ANTIRRHINUM (Snapdragon)

ANTIRRHINUMS or Snapdragons are one of the best cut flowers which can readily be grown from seed. They succeed best in a rather light soil, in a sunny position. For early flowering, sow in fall, protecting the plants with a covering of leaves through the winter. Sown in spring, they bloom by midsummer, and if the flowers are cut freely the flowering is continuous till fall. If intended for winter flowering in the house, cut them well back in September. The Snapdragon, like most perennials and biennials which bloom the first year, is treated like an annual and sown every year. *Half-hardy Perennial.* (See cut.)

TALL, GIANT FLOWERING

Flowers nearly double the size of the older sorts

- 21—Queen Victoria.** Very beautiful, bearing immense flowers, white shaded cream, with lemon-colored lip. The best white. 10c pkt.
- 22—Silver Pink.** Delicate rosy pink, seemingly covered with a silver sheen. 10c pkt.
- 23—Brilliant.** Scarlet, gold and white. 10c pkt.
- 24—Fire King.** Scarlet with orange. 10c pkt.
- 25—Venus.** Light rose, white throat. 10c pkt.
- 26—Golden King.** Golden yellow flowers. 10c pkt.
- 27—Special Collection.** One packet each of the above 6 varieties. 50c.
- 28—Tall Giant Mixed.** A splendid mixture, containing all the colors; magnificent large individual flowers. $\frac{1}{4}$ oz., 30c; oz., \$1.00; 5c pkt.

SEMI-DWARF GIANT FLOWERING

Are particularly good for bedding, as they require no staking. The flowers are most wonderful, in many new shades and tints.

- 29—Queen of the North.** Grows 1 foot in height, densely covered with large white flowers. Also valuable for pot culture. 10c pkt.
- 30—Daphne.** Soft blush pink. 10c pkt.
- 31—Golden Queen.** Pure yellow, very fine. 10c pkt.
- 32—Firebrand.** Rich deep red. 10c pkt.
- 33—Ruby.** Brilliant red. 10c pkt.
- 34—Half-Dwarf Mixed.** Large variety of colors; best for bedding. $\frac{1}{4}$ oz., 20c; 5c pkt.



AQUILEGIA, OR COLUMBINE

CHARMING hardy plants, bearing in countless numbers through May and June exquisite clear blue, white, rose, yellow, purple and striped blossoms. For planting in permanent borders or edges of shrubbery this old-fashioned favorite is one of the best. They thrive well with ordinary garden culture, but do best in partially shaded nooks. Few hardy plants are so easily grown from seed. Will bloom first season if sown very early. *Hardy Biennial.*

35—Coerulea. (Rocky Mountain Columbine.) Sepals deep blue, petals white; extra fine, 2 feet.
3 pkts., 25c; 10c pkt.

36—Coerulea Hybrida, "Rose Queen." A beautiful variety, producing in great profusion very graceful, large-flowered, long-spurred flowers, shading from light pink to dark rose with white center and yellow anthers.
3 pkts., 25c; 10c pkt.

37—McCullough's Long-Spurred Hybrids

A beautiful strain, comprising shades and combinations of blue, white, yellow, orange, scarlet and bright rose pink in large flowers with long spurs; the finest to be had.
3 pkts., 25c; 10c pkt.
38—Double, all colors, mixed.
 $\frac{1}{4}$ oz., 20c; 5c pkt.
39—Single, all colors, mixed.
 $\frac{1}{4}$ oz., 20c; 5c pkt.

ASTERS

ASTERS are one of the most important summer and autumn flowers, and receive special care at our hands. Our list comprises only such sorts as can be planted with perfect confidence that nothing better is procurable, no matter at what price or from what source.

The early sorts begin blooming in July, followed by the midseason kinds, which flower during August; then the late-flowering varieties, which are at their best through September.

It is quite easy, therefore, with a little care in the selection of the varieties, to have Asters in flower from the first days in July until hard frost.

Asters will thrive in any good soil, prepared in the same way as you would for a crop of vegetables, but it is well to remember that any extra care taken in the preparation of the soil is repaid by finer plants, larger blooms, with longer stems and more profuse flowering. They should have an open, sunny position, and prefer a good, heavy, loamy soil, enriched with a liberal quantity of thoroughly rotted manure, and the addition of wood ashes or air-slaked lime, and we do not advise growing them on the same ground two years in succession. Sow either in the open ground in May, or in March or April in cold frame, spent hotbed or pots or boxes in the house, covering the seed with about one-fourth inch of good soil. When the plants are strong enough transplant about 18 inches apart in deeply dug well-prepared beds. *Half-hardy Annual.*

40—McCullough's "Premier" Mixture

This is the finest mixture of Asters in existence, and the most critical lover of this flower will be astonished at the wide range of colors and varieties given in this strain. $\frac{1}{2}$ oz., 40c; $\frac{1}{4}$ oz., 75c; 10c pkt.

Giant Branching Asters

This superb strain is of American origin and is especially adapted to our climatic conditions.

The plants form strong, branching bushes, 2 to 2 $\frac{1}{2}$ feet high, bearing on long, strong stems their handsome Chrysanthemum-like flowers, which under ordinary cultivation, average 4 inches across. The form of the flowers, together with the length of the stems, places them at the head of Asters for cutting. They come into bloom from two to three weeks after the average type, usually being at their best during September.

41—Crimson..... 10c pkt.
42—Lavender..... 10c pkt.
43—Deep Purple..... 10c pkt.
44—Rose..... 10c pkt.
45—Shell Pink..... 10c pkt.
46—Pure White..... 10c pkt.
47—Collection. One pkt. each of the above 6 varieties..... 50c.
48—Finest Mixed. Containing many more colors than mentioned above.
 $\frac{1}{2}$ oz., 25c; $\frac{1}{4}$ oz., 40c; 10c pkt.

Improved Giant Comet Asters

The finest type of the Giant Comet, or Ostrich Feather Asters. Much larger than the Giant Comet, the petals longer, more curled and twisted, and produced in greater abundance. Borne on long stems.

49—Crimson..... 10c pkt.
50—Rose..... 10c pkt.
51—Light Blue..... 10c pkt.
52—Dark Blue..... 10c pkt.
53—Pink..... 10c pkt.
54—White..... 10c pkt.
55—Collection. One pkt. each of the above 6 varieties..... 50c.
56—Finest Mixed. All colors.
10c pkt.

Royal Asters

(The Early Branching Aster)

The flowers are large and firm; the stems long and stiff and the colors are decided and pleasing. The plants grow about 24 inches high and come into bloom about 10 days before the Giant Branching Aster.

57—Lavender..... 10c pkt.
58—Pink..... 10c pkt.
59—White..... 10c pkt.
60—Purple..... 10c pkt.
61—Rose..... 10c pkt.
62—Collection. One pkt. each of the above 5 varieties..... 40c.
63—Finest Mixed. Many colors.
 $\frac{1}{2}$ oz., 25c; $\frac{1}{4}$ oz., 40c; 10c pkt.

King Asters

The habit is similar to the popular Giant Branching, vigorous in growth, long stiff stems. In form the flower is entirely distinct from any other variety; petals somewhat resemble the quilled varieties, but are much larger and broader, those in the center being curled and incurved, completely covering the crown. In shape and size the bloom is round, full and very large.

64—Crimson..... 10c pkt.
65—Rose..... 10c pkt.
66—Violet..... 10c pkt.
67—Lavender..... 10c pkt.
68—Pink..... 10c pkt.
69—White..... 10c pkt.
70—Collection. One pkt. each of the above 6 varieties..... 50c.
71—Finest Mixed..... 10c pkt.

Queen of the Market Asters

A first-class early flowering Aster, coming into flower in July, of branching habit; flowers of good size and borne on long stems, making them exceedingly valuable for cutting; one foot.

72—Rose..... 5c pkt.
73—Crimson..... 5c pkt.
74—Light Blue..... 5c pkt.
75—Dark Blue..... 5c pkt.
76—Pink..... 5c pkt.
77—White..... 5c pkt.
78—Collection. One pkt. each of the above 6 varieties..... 25c.
79—Finest Mixed, all colors.
 $\frac{1}{4}$ oz., 35c; 5c pkt.

Express Extra Early Aster

Early flowering Asters of great merit, not only for garden purposes but of even more value for early cut flowers; come into bloom in the open ground with us by the middle of July. They are the largest early Asters of which we know, flower $3\frac{1}{2}$ to 4 inches across, of double Comet type; splendid substance and long stems; plants healthy and sturdy, branching habit; 18 inches high; free bloomers.

80—Dark Blue..... 10c pkt.
81—Light Blue..... 10c pkt.
82—Rose..... 10c pkt.
83—White..... 10c pkt.
84—Collection. One pkt. each of the above 4 varieties..... 35c.
85—Finest Mixed, all colors.
 $\frac{1}{2}$ oz., 30c; 10c pkt.

SPECIAL OFFER

Select 6 packets of Asters, any varieties, for 50c; 13 pkts. for \$1.00.

ASTERS—Continued

MISCELLANEOUS ASTERS.

- 86—**Daybreak.** Of symmetrical growth; attains a height of 18 inches, globe-shaped flowers, of a delicate pink tint. 10c pkt.
- 87—**Purity.** Identical in every way to Daybreak, but of pure glistening white. 10c pkt.
- 88—**Lavender Gem.** One of the most beautiful Asters. Of comet type, with large, artistic, loosely-arranged flowers of the most charming shade of lavender imaginable. 10c pkt.
- 89—**Pink Enchantress.** The color is a very delicate pink. It is a mid-season variety. 10c pkt.
- 90—**China Asters, Mixed.** A general mixture of fine sorts and colors. ¼ oz., 25c; 5c pkt.

SPECIAL OFFER

Select 6 packets of Asters, any varieties, for 50c; 13 pkts. for \$1.00.

BALLOON VINE

(Love-in-a-Puff) (Cardiospermum)

- 91—A rapid growing annual climber; succeeds best in a light soil and warm situation; flowers white; seed vessels look like miniature balloons and are of great interest to children. *Half-hardy Annual.* 5c pkt.



BALSAM

(Lady Slipper, or Touch-Me-Not)

ONE of the oldest and best known summer-blooming annuals, of easy culture. Desirable for garden or pot culture. The soil should be of the richest and best quality. Set about 15 inches apart, and give them plenty of manure water. *Tender Annual*; two feet.

92—McCullough's "Premier Mixed."

Unrivalled for variety of color and size of flower; includes all the most desirable shades. (See cut.) ¼ oz., 30c; 10c pkt.

- 93—**Salmon Pink.** Brilliant salmon rose flowers; very double, of finest camellia flowered type. 10c pkt.
- 94—**White Perfection.** The finest pure white grown; flowers unusually large, solid and double. 10c pkt.
- 95—**Scarlet.** Brilliant fiery scarlet. 5c pkt.
- 96—**Double Camellia Flowered, Mixed.** Of perfect form, beautiful colors. ¼ oz., 20c; 10c pkt.
- 97—**Choice Double Mixed.** ¼ oz., 15c; oz., 50c; 5c pkt.

BACHELOR'S BUTTON, BLUE-BOTTLE OR RAGGED SAILOR. (See *Cyanus*.)

BLACK-EYED SUSAN. (See *Thunbergia*.)

All 5c Packets of Flower Seeds are 6 Packets for 25c. All 10c Packets are 3 Packets for 25c.

BALSAM, Apple or Pear

VERY curious climbing vine, with ornamental foliage, fruit golden yellow, warted, and when ripe opens, showing the seed and its brilliant carmine interior; ten feet. *Tender Annual.*

98—**Balsam Pear.** (*Momordica Charantia*.) Pear-shaped fruit; the fruit is long and used medicinally. Oz., 40c; 5c pkt.

99—**Balsam Apple.** (*Momordica Balsamina*.) Round apple-shaped fruit. Oz., 40c; 5c pkt.

BEGONIAS

Everblooming Bedding Varieties

THE following are varieties of *Begonia Semperflorens*, doing equally well in full sunlight, or in positions partially or wholly in shade. They grow about one foot high and form dense bushes, which, from May until frost are completely hidden with flowers. As pot plants for winter flowering they are superb. Easily raised from seed, which should be started indoors or in a hotbed. *Tender Perennials.*

100—**Gracilis Luminosa.** This differs from *Begonia Gracilis* in the lustrous reddish-brown color of the foliage, while the flowers measuring 1 to 1½ inches across, are of a fiery dark scarlet. It is very free flowering, and where massed produces a splendid effect. No better sort for groups and bedding has yet been seen. (See cut.) 10c pkt.

101—**Vernon.** Bright orange carmine flowers, deep red foliage. 10c pkt.

102—**Vernon Grandiflora.** A large-flowering form of the above, with which it is identical in growth, floriferousness and color. The flower is nearly twice the size of the type. 15c pkt.

103—**Semperflorens, Single Mixed.** This mixture contains all the best varieties, ranging in color from pure white to the deepest crimson; splendid. 10c pkt.

TUBEROUS-ROOTED BEGONIAS. (See *Bulbs*.)

BELLIS (English Daisy)

A FAVORITE perennial plant, which will stand the winter if given the protection of a few leaves or litter; in bloom from early Spring until well on in the Summer. The seed we offer is saved from the finest double varieties; easily raised from seed; usually sown in August, but can be sown in Spring, and for best results should be sown each year; 4 inches. *Half-hardy Perennial.*

104—**Longfellow.** Large, double, dark pink flowers; with long, stiff stems. 10c pkt.

105—**Snowball.** A beautiful white variety with long stems, and very double flowers; fine for cutting. 10c pkt.

106—**Giant Double.** Beautifully and densely imbricated flowers, 1½ inches in diameter. Finest mixed. 10c pkt.

BRACHYCOME (Swan River Daisy)

FREE-FLOWERING, dwarf-growing plants covered during the greater part of the summer with a profusion of pretty, Cineraria-like flowers. Suitable for edgings and small beds or pot culture. *Half-hardy Annual.*

107—**Mixed.** Light blue and white. 5c pkt.

BROWALLIA (Amethyst)

108—**Free-Flowering plants,** covered with bright blue flowers, during summer and autumn. Sow during April and May in good, light, rich soil. *Half-hardy Annual.* Mixed Colors. 5c pkt.

BRYONOPSIS

109—**Laciniosa.** A beautiful annual climber of the gourd species, with ivy-like pale green foliage and showy fruit, first green, striped white, turning when ripe to scarlet, striped white. *Half-hardy Annual.* ... 5c pkt.



Begonia Gracilis Luminosa

CALCEOLARIA

- 110—**Hybrida Grandiflora.** Unsurpassed for pot culture in the greenhouse or conservatory, producing their brilliant flowers in great profusion and variety. *Greenhouse Perennial.* Mixed varieties. 25c pkt.

CALENDULA (Pot Marigold)

SHOWY free-flowering hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders, continuing in bloom from early summer until killed by frost; valuable also for pot culture, one foot. *Hardy Annual.* (See cut.)

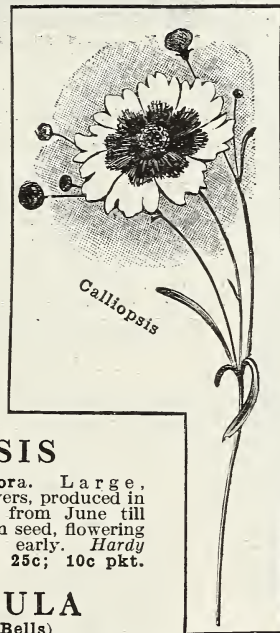
- 111—**Orange King.** The outer petals are slightly imbricated, while those of the center are curved like those of the peony. Color rich, dark orange. ½ oz., 15c; 5c pkt.
 112—**Prince of Orange.** This variety surpasses in beauty the well known *Calendula Meteor*. The stripes around each petal are of a deep orange color, making a brilliant appearance. ½ oz., 15c; 5c pkt.
 113—**Lemon King.** A grand variety, with double, extra large yellow flowers. ½ oz., 15c; 5c pkt.
 114—**Fine Double Mixed.** Contains the choicest sorts. ½ oz., 10c; oz., 15c; 5c pkt.

(See also Marigold)

CALLIOPSIS

SHOWY, and beautiful free-flowering annuals, of the easiest culture, doing well in any sunny position, blooming all Summer and excellent for cutting and massing. It is best to sow them where they are to bloom, thinning out to stand 8 inches to 12 inches apart. By keeping the old flowers cut off, the flowering season can be lengthened until late autumn. *Hardy Annual.* (See cut.)

- 115—**Golden Wave.** Bright, golden-yellow flowers, with small, dark centers, blooming profusely. ½ oz., 20c; 5c pkt.
 116—**Finest Mixed.** ½ oz., 20c; 5c pkt.



COREOPSIS

- 117—**Lanceolata Grandiflora.** Large, showy, bright yellow flowers, produced in the greatest abundance from June till frost. Easily grown from seed, flowering the first year if sown early. *Hardy Perennial.* ¼ oz., 25c; 10c pkt.

CAMPANULA

(Canterbury Bells)

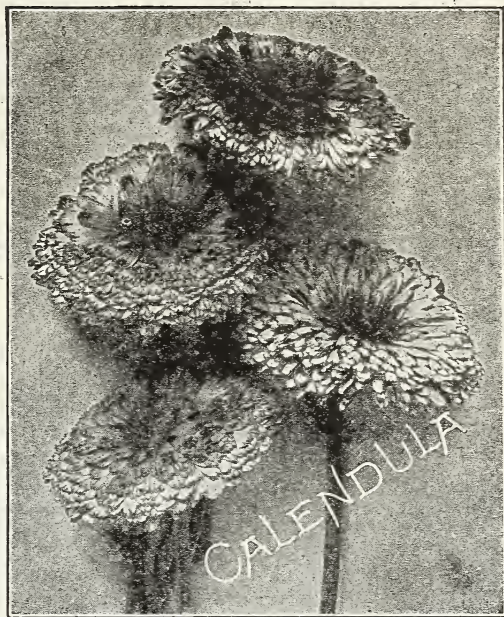
THIS old-fashioned flower is a favorite with all. Stately and showy, and of the easiest culture. The seeds should be sown about April, in finely prepared, rich soil. *Hardy Biennial.*

Calycanthema. (Cup and Saucer Canterbury Bells.) They differ from the ordinary type in having an extra large calyx, which is of the same color as the flower, giving the appearance of a cup and saucer.

- 118—**Pink.** Delicate rosy-pink. 10c pkt.
 119—**Blue.** A fine, clear shade. 10c pkt.
 120—**White.** Pure white. 10c pkt.
 121—**Finest Mixed.** All colors of the Cup and Saucer type. ¼ oz., 50c; 5c pkt.

Medium. (Single Canterbury Bells.) The old-fashioned sort, with beautiful, large bell-shaped blossoms. (See cut.)

- 122—**Blue.** 10c pkt.
 123—**Rose.** 10c pkt.
 124—**White.** 10c pkt.
 125—**Single Mixed.** All colors. ¼ oz., 25c; 5c pkt.
 126—**Double Mixed.** All the double-flowering Medium varieties. ¼ oz., 40c; 5c pkt.



CANARY-BIRD VINE

(*Tropaeolum Canariense*)

- 127—A beautiful rapid annual climber, the charming little canary-colored blossoms bearing a fancied resemblance to a bird with its wings expanded. *Half-hardy Annual.* Oz., 25c; 5c pkt.

CANDYTUFT

UNIVERSALLY known and cultivated, and considered indispensable for cutting; one foot. *Hardy Annual.*

- 128—**Giant Hyacinth Flowered.** The finest of all the white varieties, being a complete mass of pure white flowers, in a pyramid of bloom. ½ oz., 25c; oz., 40c; 5c pkt.
 129—**Little Prince.** Very large heads of pure white flowers; fine for borders and pots; 6 inches. 5c pkt.
 130—**Rose Cardinal.** Bright carmine rose. 5c pkt.
 131—**White Rocket.** Pure white. Oz., 25c; 5c pkt.
 132—**Dwarf Hybrids Mixed.** 5c Pkt.
 133—**Mixed Colors.** ½ oz., 15c; Oz., 25c; 5c pkt.
PERENNIAL CANDYTUFT. (See Iberis.)

CANNA

(Indian Shot)

SOAK the seeds in warm water until they show evidence of swelling; then sow in sandy loam, and place in a hotbed; when up to the second leaf, pot off singly. *Half-hardy Perennial.*

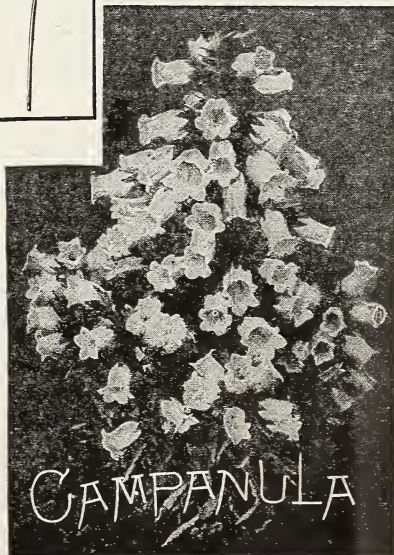
- 134—**Mixed.** Crozy's finest sorts. Oz., 20c; 5c pkt.

CARDINAL CLIMBER

(*Ipomoea Quamoclit Hybrida*)

- 135—The most brilliant, beautiful and distinct annual climber introduced for many years. Rapid grower with branching habit; flowers all summer; cardinal-red clusters, 15 to 25 feet. *Tender Annual.* 10c pkt.

Cardinal Climber Plants. Each 20c; by mail, each 25c.



CARNATION

CARNATIONS are general favorites for their delicious fragrance and richness of colors. They are indispensable, both for greenhouse culture in Winter and for the garden in Summer. The Marguerite type is best for Summer flowering.

Half-hardy Perennial.

- 136—Earliest French Mixed. ¼ oz., 50c; 10c pkt.
137—Malmaison or Giant Mixed. ¼ oz., 50c; 10c pkt.

Marguerite Carnation

- 138—These are deservedly the most popular Carnations with the amateur, as they begin flowering in a few weeks from time of sowing, producing on long, strong stems an abundance of large, double, beautifully fringed, highly scented flowers. *Half-hardy Perennial.* Mixed. All colors.
¼ oz., 50c; 5c pkt.

CELOSIA, or Cockscomb

GRACEFUL plants, growing best in rather light soil, not too rich, producing beautiful comb-shaped flowers; grown in pots, they are fine for the greenhouse or conservatory. *Half-hardy Annual.*

- 139—Glasgow Prize. Enormous rich, deep crimson combs. 10c pkt.
140—Dwarf Mixed. Large solid heads of bloom. 5c pkt.

Celosia Plumosa (Feathered Cockscomb)

Make fine plants for large beds or groups, and the plumes or flowers can be cut and dried for winter bouquets.

- 141—Thompsoni Magnifica Crimson. Of pyramidal growth, attaining a height of 3 feet and producing graceful, feathery plumes of the most brilliant crimson. 10c pkt.
142—Thompsoni Magnifica Yellow. 10c pkt.
143—Plumosa, Mixed. 5c pkt.
CHILDSI. (See Chinese Woolflower.)

CENTAUREAS

UNDER this name is included such popular annuals as the Cornflowers, Sweet Sultans, etc. They are perfectly hardy, will grow almost anywhere, and are in demand as cut flowers.

Cornflowers (Centaurea Cyanus)

These are also known as Bachelor's Button, Blue Bottle, Ragged Sailor, Bluet. Attractive flowers of easiest culture. Sow early in Spring in the beds where they are to bloom. *Hardy Annual.* (See cut.)

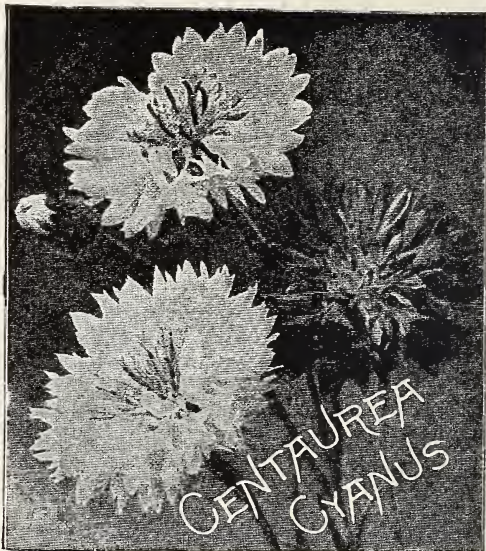
- 144—Dwarf Blue. Single blue. ½ oz., 15c; oz., 25c; 5c pkt.
145—Single Mixed. Blue, white, rose, etc. ½ oz., 15c; oz., 25c; 5c pkt.
146—Double Blue. Flowers semi-double. 5c pkt.
147—Double Pink. 5c pkt.
148—Double Mixed. ½ oz., 15c; oz., 25c; 5c pkt.

Royal Sweet Sultans (Centaurea Imperialis)

The beautiful sweet-scented, artistic-shaped flowers are borne on long, strong stems, and when cut will stand for several days in good condition. It is best to sow very early in the Spring. *Hardy Annual.*

- 149—Rose. 10c pkt. 151—Purple. 10c pkt.
150—Lavender. 10c pkt. 152—White. 10c pkt.
153—Yellow. 10c pkt.
154—Collection. One packet each of the above 5 varieties, 40c.

- 155—Finest Mixed Colors. ¼ oz., 20c; 5c pkt.



White-Leaved Centaureas (Dusty Millers)

Fine for bedding, vases, hanging-baskets and pots; also extensively used for borders. Sow the seed early indoors and transplant in May. *Tender Perennial.*

- 156—Candidissima. Silvery white; leaves broadly cut. 10c pkt.
157—Gymnocarpa. Fine-cut silvery foliage; the kind used most for borders; 1 foot. ¼ oz., 20c; 10c pkt.

CENTROSEMA (The Butterfly Pea)

- 158—Grandiflora. Interesting and beautiful vine of rare and exquisite beauty. It blooms early in June from seed sown in April, and bears in the greatest profusion inverted pea-shaped flowers, from 1½ to 2½ inches in diameter, ranging in color from a rosy violet to a reddish purple. *Hardy Perennial.* 10c pkt.

CHINESE WOOLFLOWER

(Celosia Childsi)

- 159—This new Celosia grows two to three feet high, the bloom starting early with a central head, round and globular, which often reaches an immense size. Scores of branches are thrown out, each bearing a ball of scarlet wool, but not so large as the central one. None of the blooms fade in any way until hit by frost. Start seed if convenient under glass about four weeks before time to transplant to the garden. If the little plants remain too long in pots or seed beds, they will begin to set bloom, which is not desirable. Transplant to the garden as soon as danger of frost is passed. *Half-hardy Annual.* 2 pkts., 25c; 15c pkt.

CHRYSANTHEMUMS

Hardy Annual Varieties

The hardy annuals are summer-flowering border plants and quite distinct from the hardy perennial varieties.

- 160—Bridal Robe. (Double.) The plants grow about 12 inches high, and are covered the entire summer with their beautiful snow-white double flowers. 5c pkt.
161—The Sultan. (Single.) Crimson maroon. 5c pkt.
162—Evening Star. (Single.) Flowers 3 inches across; of pure golden-yellow. 5c pkt.
163—Northern Star. Large, white flowers, with black center. 5c pkt.
164—Annual Double Mixed. Yellow, white, etc. 5c pkt.
165—Annual Single Mixed. (Painted Daisies.) 5c pkt.

SHASTA DAISY

(Chrysanthemum Leucanthemum)

- 166—Alaska. A splendid *hardy perennial* variety, with flowers rarely less than 4 inches across, of the purest glistening white, with broad, overlapping petals, and borne on long, strong stems; a beautiful cut flower, remaining in good condition a week or more. (See cut.) ... 10c pkt.

CINERARIA

AWELL-KNOWN greenhouse plant, having a range and brightness of color scarcely surpassed. It may be had in bloom through the greater part of the year. *Greenhouse or Tender Annual.*

- 167—Hybrida Grandiflora. This strain of Cineraria can not be surpassed, either for size of flowers or beauty of color. Many of the blooms measure 2½ inches in diameter. We have received very flattering reports from florists and private gardeners of their success with our Cineraria seed. 25c pkt.



CLEOME (Giant Spider Flower)

- 168—**Gigantea.** Singular-looking, rose-colored flowers; the stamens look like spiders legs, and present a very attractive appearance, annual, 3 feet. This plant is now used extensively in many of the public parks, planted among shrubbery, and is very effective. *Half-hardy Annual.* 5c pkt.

COLEUS

- 169—**Large Leaved Varieties.** Our strain of hybrid varieties produces the finest colored, most attractive and novel foliage plants for house or garden culture. A most interesting subject to grow from seed. Sow indoors in March or April and transplant to open ground in May. *Tender Perennial.*
2 pkts., 25c; 15c pkt.

Columbine (See Aquilegia)

COSMOS

BEAUTIFUL autumn-blooming plants. They produce thousands of beautiful flowers in pure white, pink and crimson shades, furnishing an abundance of cut blooms for autumn decoration when other flowers are scarce. Should be sown in Spring in the open ground, when danger of frost is past, or the seed may be started under cover and afterwards transplanted. Plant not less than 18 inches apart in rows or in masses in beds. When the plants are about a foot high the tops should be pinched out to induce a bushy growth. They prefer a rather light, not too rich soil, but do well almost anywhere. *Half-hardy Annual.* (See cut.)

Double Crowned and Crested

We consider this one of the best flower novelties of recent years. The colors are similar to those of the old type and the habit of the plant is vigorous. They come into flower about the same time as the late flowering mammoth.

- 170—**Double Pink Beauty.** 3 pkts., 25c; 10c pkt.
171—**Double White Queen.** 3 pkts., 25c; 10c pkt.
172—**Double Mixed Hybrids.** 3 pkts., 25c; 10c pkt.

Extra Early Mammoth Flowering

Seeds sown in the open ground produced plants that were covered with bloom two months before the late-flowering kinds.

- 173—**Crimson.** Rich..... ¼ oz., 25c; 5c pkt.
174—**Pink.** A pretty shade.... ¼ oz., 25c; 5c pkt.
175—**Pure White.**..... ¼ oz., 25c; 5c pkt.
176—**Mixed, Early Cosmos.**... ¼ oz., 20c; 5c pkt.

Mammoth Perfection

A magnificent selection, bearing flowers of mammoth size and perfect form.

- 177—**Mammoth Crimson.**.... ¼ oz., 20c; 5c pkt.
178—**Pink "Lady Lenox."** Bears gigantic flowers, on very long stems, in color a beautiful deep rosy-pink. The plant is of strong, vigorous growth, 6 to 7 feet high. ¼ oz., 25c; 5c pkt.
179—**White "Lady Lenox."** Flowers measure four to five inches in diameter, which is about three times larger than the ordinary Cosmos. Habit of plant strong and vigorous, bushes growing to a height of seven feet. ¼ oz., 25c; 5c pkt.
180—**Mammoth Perfection, Mixed.** ¼ oz., 20c; 5c pkt.

CYPRESS VINE (Ipomoea Quamoclit)



DELICATE, fern-like foliage, and masses of beautiful, small star-shaped flowers. Sow in May, first soaking the seeds in warm water for a few hours. 15 feet. *Half-hardy Annual.* (See cut.)

- 181—**Scarlet.** Oz., 40c; 5c pkt.
182—**White.** Oz., 40c; 5c pkt.
183—**Mixed.** White and Scarlet... Oz., 40c; 5c pkt.

QUAMOCLIT HYBRIDA

(See Cardinal Climber.)

CONVOLVULUS

(See Morning Glory.)

COBAEA SCANDENS

(Cathedral Bells)

- 184—**Purple Lilac.** A magnificent summer climber, of rapid growth, and bearing large, bell-shaped, purple flowers. In sowing, place the seeds edgewise and cover lightly. *Tender Perennial.* 10c pkt.

Cobaea Scandens Plants. Each 25c; per doz., \$2.50; (by mail, each, 30c.)

CORN (Ornamental)

- 185—**Zea Japonica Quadricolor Perfecta.** This grass forms an object of great beauty in mixed beds and borders or isolated in groups on lawns, in sub-tropical gardens, etc.; it thrives in rich, light, warm soils. The leaves are striped in yellow, green, rose and dark red; four feet. *Tender Annual.*.... ¼ oz., 15c; 5c pkt.



CYCLAMEN

- 186—**Giant-Flowered.** (Persicum Giganteum.) A popular pot-plant for Winter and Spring-flowering. Seedlings bloom in eight to ten months. *Greenhouse Perennial.* Best strains, mixed, 25c pkt.

DAHLIA

DAHLIAS are easily grown from seed and bloom the first season. The earlier they are started the better, which can be done nicely in a box in a sunny window or the greenhouse. Protect the roots during winter in a dry cellar in sand. *Half-hardy Perennial.*

Double Flowering

- 187—**Cactus Varieties.** Most popular at the present time; distinct and elegant; petals pointed. 10c pkt.
188—**Double Large-Flowering.** This mixture is composed of the finest large flowering double varieties. ... 10c pkt.

Single Flowering

- 189—**Collerette.** A novel type, having a row of short petals around the disc like a frill or collar, and which is always of a different color from the regular petals; mixed colors. 10c pkt.
190—**Single Giant Perfection.** This strain produces flowers of immense size, averaging 6 inches across, in a great variety of coloring. ¼ oz., 50c; 10c pkt.

DELPHINIUM (Hardy Perennial Larkspur)

ONE of the most exquisite blue-tinted flowers that we have. Very effective planted in beds, masses or borders. Plant $1\frac{1}{2}$ to 2 feet apart each way. Perennial varieties should be sown in the Fall or very early in the Spring, transplanting to the open ground. *Hardy Perennial.*

- 191—**New Giant-Flowering Hybrids.** These magnificent Hybrids, the grandest of Delphiniums in existence, produce beautiful spikes of immense flowers, single, semi-double and double. Flower spikes are from 2 to 3 feet in length. Colors are beautiful, ranging from pure white through all shades of lavender and blue. (See cut.).....10c pkt.
- 192—**Belladonna.** (Everblooming Hardy Larkspur.) Free blooming Hardy Larkspur, never being out of flower from the end of June until frost. The clear turquoise-blue of its flowers is not equaled for delicacy and beauty by any other flower.....10c pkt.
- 193—**Elatum.** (Giant Bee Larkspur.) Clear, blue flowers, 3 feet.....5c pkt.
- 194—**Formosum.** Elegant spikes of the richest dark-blue flowers, with a white center; especially fine for cutting; 4 feet.....5c pkt.
- 195—**Formosum Coelestinum.** Light, sky-blue flowers, with darker centers; a very fine variety; 4 feet.....10c pkt.
- 196—**Mixed Chinese Varieties.** This mixture contains a great variety of shades, from pure white to gentian-blue.....5c pkt.
- ANNUAL DELPHINIUMS.** (See Larkspur.)

DIMORPHOTHECA

(African Golden Daisy) *Half-hardy Annual.*

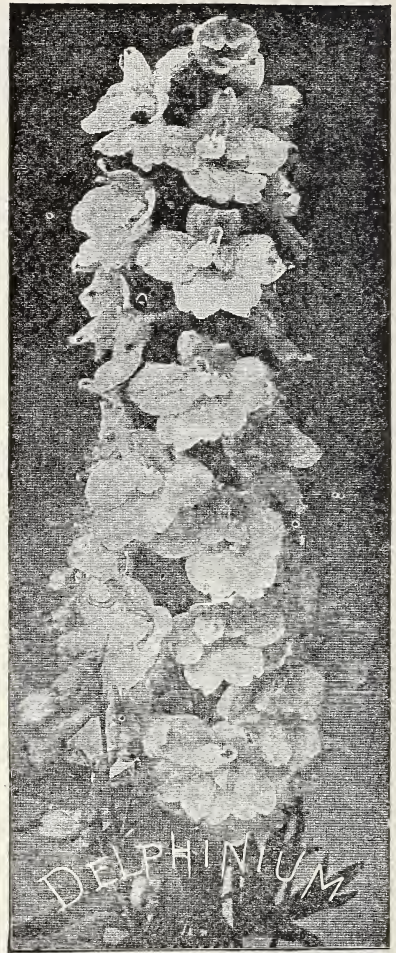
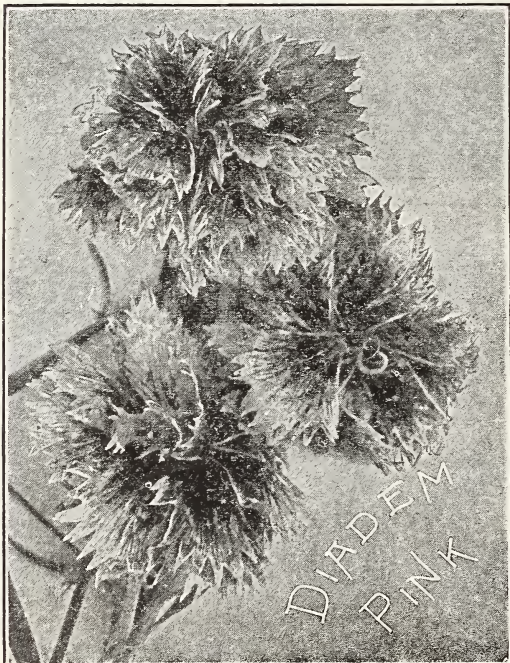
- 197—**Aurantiaca.** The bushy plants grow 12 to 15 inches high. The flowers, which are $2\frac{1}{2}$ inches and over across, are a unique, rich, glossy, orange-gold, with dark disc and halo.....10c pkt.
- 198—**Aurantiaca Hybrida.** Beautiful new hybrids varying in color from the purest white through the various shades of yellow and orange to rich salmon shades, many being zoned.....10c pkt.

DIANTHUS, or Pinks

THIS elegant family contains many of the most valuable and popular flowers in cultivation. All the sorts classed as annuals may be sown directly in the garden as soon as danger from frost is past, and will in a short time become a mass of bloom, and so remain all Summer. Elegant as cut flowers for bouquets; as the stems are good. Grow about one foot high, and are of easiest culture. *Half-hardy Annual.*

Double Annual Pinks

- 199—**China Pinks.** (Chinensis fl. pl.) Large, double, fragrant flowers. Mixed colors.....5c pkt.
- 200—**Double Diadem Japan Pinks.** (Heddewigi Diadematis fl. pl.) Densely double flowers in beautiful tints of crimson, lilac, purple, outer edges fringed with white. (See cut.).....5c pkt.
- 201—**Double Fringed Japan Pinks.** (Laciniatus fl. pl.) Large double, showy flowers, with fringed edges; various colors and beautifully striped.....5c pkt.



- 202—**Royal Pink.** (Dianthus Heddewigi Nobilis.) The flowers are very large and the petals are fringed and fringed. The colors are of a deep yet very bright blood-red, then shade to carmine and pink and even white.....5c pkt.
- 203—**Snowball.** Large double white, splendid for cutting or as a border.....5c pkt.
- 204—**Fireball.** Rich blood-red flowers. Makes a striking contrast to the pure white variety; Snowball.....5c pkt.

Single Annual Pinks

- 205—**Salmon Queen.** The well-formed, nicely-fringed flowers are a brilliant salmon color, changing into a crimson rose.....5c pkt.
- 206—**Vesuvius.** Brilliant geranium-red, makes a very effective bed or border.....5c pkt.

Hardy Garden Pinks

This splendid class of Pinks should be in all gardens. They have the delightful clove fragrance. *Half-hardy Perennial.*

- 207—**Double Large-Flowering Grass, or Spice Pinks.** (Plumarius Semperflorens, fl. pl.) One foot high. The flowers, which are beautifully fringed, are much larger and more double than the old varieties, while the colors are far richer. They emit a delightful, sweet-scented, spicy odor. Perfectly hardy, requiring only the ordinary culture of Pinks.....10c pkt.

DIANTHUS BARBATUS. (See Sweet William.)

DIGITALIS (Foxglove)

- 208—**Handsome and highly ornamental hardy plants of stately growth.** They are now used extensively with good effect for naturalizing in shrubberies, the edge of woods and other half-shady places; 3 to 5 feet. *Hardy Biennial.* Finest Mixed.....10c pkt.

DOLICHOS (Hyacinth Bean)

- 209—A rapid-growing, annual climber, flowering freely in erect racemes, followed by ornamental seedpods; for covering arbors, trellises, etc. *Tender Annuals*. Finest mixed, purple and white. Oz., 15c; 5c pkt.

ESCHSCHOLTZIA

(California Poppy, Gold Cups)

A **SHOWY**, free-flowering plant of low-spreading growth, with finely divided foliage, blooming throughout the season. Seed should be sown thinly in shallow drills early in Spring. *Hardy Annual*. (See cut.)

- 210—**Californica**. Bright yellow, with orange center. Oz., 25c; 5c pkt.
 211—**Carmine King**. A beautiful carmine rose color, as intense on the inside as on the outside of the petals, which gives it an altogether novel and beautiful effect. Oz., 50c; 5c pkt.
 212—**Golden West**. The flowers measure from 3 to 6 inches in diameter; they have large, overlapping petals, often daintily waved at the edges. Color, light canary-yellow, with an orange blotch at the base of the petals, which blotch often suffuses the whole flower. Oz., 30c; 5c pkt.
 213—**Hybrida Grandiflora**. New large flowering, erect type containing a large percentage of new shades and includes soft pink, scarlet, chrome-copper red, claret and royal purple. . . 3 pkts., 25c; 10c pkt.
 214—**Mixed**. Single cup-shaped flowers in shades of bright yellow, deep orange, pink, and silvery white. Oz., 25c; 5c pkt.

BUSH ESCHSCHOLTZIA. (See *Hunnemannia*.)

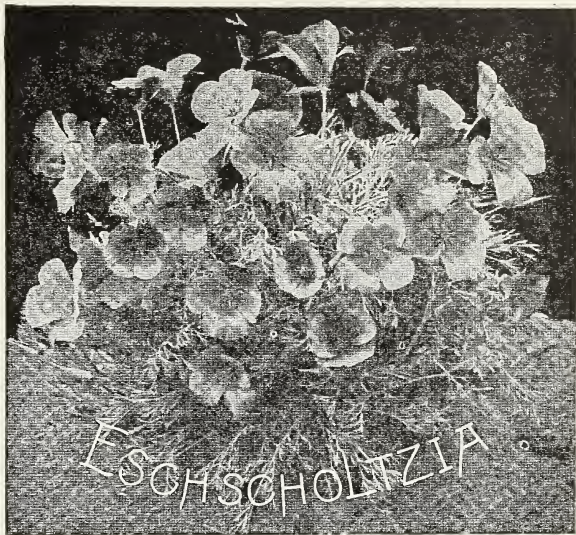
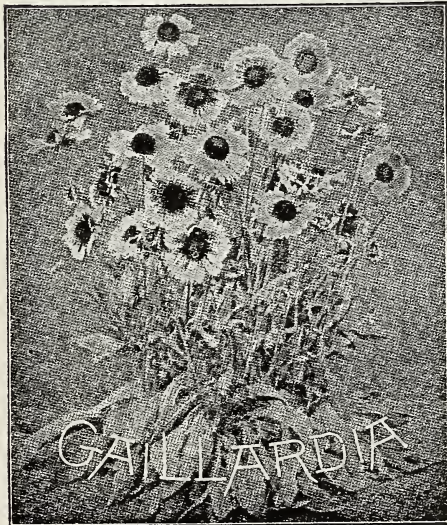
EUPHORBIA

STRONG-GROWING annuals, suitable for beds of tall-growing plants or mixed borders; the flowers are inconspicuous; but the foliage is exceedingly ornamental. *Hardy Annual*.

- 215—**Variegata**. (Snow on the Mountain.) Attractive foliage, veined and margined with white; 2 feet. 5c pkt.
 216—**Heterophylla**. Annual Poinsettia, Mexican Fire Plant, Painted Leaf. The plants grow 2 to 3 feet high, of branching, bush-like form, with smooth, glossy-green leaves, which about mid-summer become a beautiful orange-scarlet, presenting a striking and brilliant appearance. 10c pkt.
EVERLASTING, ETERNAL, or STRAW FLOWERS. (See *Acroclinium*, *Ammobium*, *Gomphrena*, *Helichrysum*, *Rhodanthe* and *Xeranthemum*.)
FEVERFEW. (See *Pyrethrum* and *Matricaria*.)
FLAX, Scarlet. (See *Linum*.)
FORGET-ME-NOT. (See *Myosotis*.)
FOUR-O'CLOCKS. (See *Marvel* of Peru.)
FOXGLOVE. (See *Digitalis*.)

GOMPHRENA (Globe Amaranth)

- 217—A desirable everlasting, valuable for its handsome globular heads of flowers. *Half-hardy Annual*. Mixed. 5c pkt.

**GAILLARDIA** (Blanket Flower)
ANNUAL VARIETIES

Splendid, showy annuals; in bloom from early Summer till November; excellent for beds, borders or for cutting. *Half-hardy Annual*.
 218—**Picta Lorenziana**. Double-flowering mixed. 5c pkt.
 219—**Picta Mixed**. Single sorts; fine colors. 5c pkt.

HARDY PERENNIAL VARIETY

Thrives in almost any position or soil and requires little or no protection. If sown early, begins flowering in July, continuing a mass of bloom until frost, fine for cutting. *Hardy Perennial*. (See Cut.)

- 220—**Grandiflora**. A compact variety, forming bushy plants 12 to 15 inches high, and bearing its long-stemmed flowers well above the foliage. 5c pkt.

GERANIUM (Pelargonium)

THE heads of gorgeous flowers, of many shades of color, borne continuously, render this one of the most popular plants grown, either for pot culture in Winter or for bedding out in Summer. *Tender Perennial*.

- 221—**Zonale, Mixed**. A superb strain of the largest and finest varieties. 10c pkt.
 222—**Apple-scented**. This fragrant, favorite variety can only be grown from seed to form fine plants. 10c pkt.

GODETIA

- 223—The plants bloom profusely and bear showy flowers of satiny texture in many rich and varied colors. They do best in a rather poor soil. 1 foot. *Hardy Annual*. Finest Mixed. Oz., 30c; 5c pkt.

GOURDS (Ornamental)

BEING of rapid growth, they are fine to cover old fences, trellises, stumps, etc. Do not plant the seed till all danger of frost is over, and select rich, mellow ground. *Tender Annual* climbers, 10 to 20 feet.

- 224—**Calabash, or Dipper**. Long, slim handle. 5c pkt.
 225—**Dish Cloth**. Clusters of large, yellow flowers. The fruit, when dried, is used as a dish cloth. 5c pkt.
 226—**Giant Bottle**. Large and ornamental. 5c pkt.
 227—**Hercules Club**. A curious sort. Club-shaped. 5c pkt.
 228—**Japanese Nest Egg**. White; facsimile of an egg; not injured by heat or cold. 5c pkt.
 229—**Orange**. The well-known mock orange. 5c pkt.
 230—**Pear-shaped**. Green and white striped. 5c pkt.
 231—**Sugar Trough**. Used for buckets. Very large. 5c pkt.
 232—**African Pipe**. The stem end of the fruits are much used in making pipes. 5c pkt.
 233—**Mixed Varieties**. Oz., 25c; 5c pkt.



GRASSES (Ornamental)

FOR large beds or groups on lawns nothing gives a finer effect. and they are now largely used in prominent positions in many of the finest public parks, etc. When carefully dried, they are useful in making up winter bouquets. Cut when in full bloom, and before the flowers get too old; tie in small bunches and hang up in a dry, dark place, with the heads downward.

- 234—**Bromus Brizaeiformis**. A graceful variety, with drooping panicles. *Hardy Perennial*, flowering the first season; 1 foot. 5c pkt.
- 235—**Coix Lacryma**. (Job's Tears.) Broad, corn-like leaves, and hard, shining, pearly seeds, resembling tears; 2 feet; *Hardy Annual*. Oz., 10c; 5c pkt.
- 236—**Erianthus Ravennae**. A *Hardy Perennial* noble grass, with exquisite white plumes; flowers the first season if sown very early; 10 feet. 5c pkt.
- 237—**Eulalia Japonica**. One of the most beautiful of the tall-growing grasses. *Hardy Perennial*; 5 feet. 5c pkt.
- 238—**Gynerium Argenteum**. (Pampas Grass.) The finest ornamental grass in cultivation. *Half-hardy Perennial*; 10 feet. 5c pkt.
- 239—**Pennisetum Ruppelianum**. Beautiful and graceful spikes of purple; this is one of the best. *Hardy Annual*; 2 ½ feet. 5c pkt.
- 240—**Finest Mixed**. Used for making Winter bouquets. 5c pkt.

GYPSOPHILA (Baby's Breath)

PRETTY free-flowering plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers.

- 241—**Elegans Grandiflora Alba**. This is an improved large flowering, pure white form of the annual Baby's Breath. *Half-hardy Annual*. Oz., 25c; 5c pkt.
- 242—**Paniculata**. White flowers, fine for bouquets; blooms first year if sown early. *Hardy Perennial*; 2 feet. 5c pkt.

HELICHRYSUM (Straw Flower)

- 243—**Monstrosum**. Everlasting flowers, large and full. Colors, white, yellow and red. Cut before the flowers fully expand. *Hardy Annual*. Mixed. 5c pkt.



MALLOW
MARVELS

HELIOTROPE (Cherry Pie)

A *HALF-HARDY Perennial*, flowering during the whole season; its delightful perfume makes it a most desirable bouquet flower; a splendid bedding plant, or can be trained as a greenhouse climber. Seed started indoors in the Spring will make fine plants for Summer blooming.

- 244—**Choicest Mixed**; from new varieties. 5c pkt.

HIBISCUS (Marshmallow)

SHOWY ornamental perennial plants, for mixed beds or shrubbery borders; blooms first year if sown early.

- 245—**Mallow Marvels**. Immense flowers from 8 to 10 inches in diameter, in following colors; fiery crimson, blood red, shell pink and white. Their great beauty surpasses all other perennials in profusion of bloom and brilliancy of color. They come up year after year and are absolutely hardy. *Hardy Perennial*. (See cut.) 10c pkt.

HOLLYHOCK

ONE of the most majestic of hardy plants, and a clump or line in any garden gives an effect not attainable with any other plant. For planting among shrubbery or forming a background for other flowers it is without an equal. Seed sown any time before mid-summer will produce fine plants for flowering next year. To get results this season it is necessary to get year-old plants. These we offer with other hardy plants under their proper heads. *Hardy Perennial*.

- 246—**Chater's Double Pink**. 10c pkt.
- 247—**Chater's Double Scarlet**. 10c pkt.
- 248—**Chater's Double White**. 10c pkt.
- 249—**Chater's Double Yellow**. 10c pkt.
- 250—**Chater's Prize, Double Mixed**. This strain stands unrivaled in richness and delicacy of coloring, with magnificent spikes of very double flowers. (See cut.) 3 pkts., 25c; 10c pkt.
- 251—**Choice Double Mixed**. 5c pkt.
- 252—**Mammoth Fringed Allegheny**. Mammoth flowers of loosely arranged fringed petals. The colors vary from the palest shrimp pink to deep red. The plants are of strong growth, sending up spikes 6 to 7 feet high. 3 pkts., 25c; 10c pkt.
- 253—**Single**. Many prefer the single flowering. They are usually of freer growth and present a handsome appearance when covered with their artistic blossoms. Finest mixed; all colors. 5c pkt.

HONESTY (Moonwort, Satin Flower)

- 254—Greatly admired for its silvery seed pouches, which are used for house ornaments; two feet. *Hardy Biennial*. 5c pkt.

HUNNEMANNIA

(Giant Yellow Tulip Poppy, or Bush Eschscholtzia)

- 255—**Fumariaefolia**. This is by far the best of the poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large buttercup-yellow, poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful feathery glaucous foliage. *Half-hardy Annual*. 5c pkt.

HUMULUS (Japanese Hop)

- 256—**Japonicus**. A very ornamental and fast-growing climbing plant. The foliage resembles that of the common Hop, is very dense, and in color a lively green. *Hardy Annual*. $\frac{1}{4}$ oz., 20c; 5c pkt.
- 257—**Variegatus**. A variegated variety of the hop. The leaves are beautifully marbled and splashed with silvery-white, light and dark green; very effective for screens, arbors, trellises, etc. *Hardy Annual*. $\frac{1}{4}$ oz., 20c; 5c pkt.

HYACINTH BEAN. (See *Dolichos*)

IBERIS (Hardy Candytuft)

- 258—**Sempervirens**. A profuse white-blooming plant, coming in flower early in the Spring; much used for cemeteries, rockeries, etc.; 1 foot. *Hardy Perennial*. 5c pkt.

ICE PLANT

- 259—**Mesembryanthemum Crystallinum**. Handsome and curious plants for hanging baskets, rock-work, vases and edgings. The leaves and stems are covered with crystalline globules, giving it the appearance of being covered with ice. Succeeds best in a sandy soil and warm situation. *Tender Annual*. 5c pkt.

IPOMEA. (See *Cypress Vine*, *Moonflower* and *Morning-Glory*)

JOB'S TEARS. (See *Ornamental Grasses*)

"JACK AND THE BEAN STALK". (See *Kudzu Vine Seed*.)

IMPATIENS (Sultan's or Zanzibar Balsam)

CHARMING plants producing bright, waxy-looking flowers profusely and almost continuously. *Tender Perennial*.

- 260—**Holstii**. It forms elegant bushes 1 $\frac{1}{2}$ feet in height. The flowers measure 1 $\frac{1}{2}$ inches across, are of a brilliant vermilion color and form effective and showy flower beds. 10c pkt.
- 261—**Sultana Hybrida**. Beautiful hybrids. Varying shades of color, from delicate pink to the deepest red. 10c pkt.

KENILWORTH IVY

- 262—**Linaria Cymbalaria**. A trailing plant suitable for vases, etc. Little lavender and purple flowers and an exquisite foliage. *Hardy Perennial*. 10c pkt.

KOCHIA

(Summer Cypress, Belvedere or Burning Bush)

FORMS regular pyramids about 3 feet high, having a cypress-like appearance. The leaves are light green until September, when they change to carmine and blood red. Sow indoors in April and plant out in May, or sow in open ground about May 1. *Hardy Annual*. (See cut.)

- 263—**Kochia Tricophylla**. 5c pkt.

- 264—**Kochia Childsii**. This new variety produces plants that grow three to four feet high, dense, strong and symmetrical. The foliage is green all summer, but at touch of frost it changes to dark claret-red and does not die until Christmas or later. A splendid plant to divide the vegetables from the flower garden or for forming a hedge for the summer for any purpose. Also desirable as a pot plant. 3 pkts., 25c; 10c pkt.



KUDZU VINE

- 265—**Pueraria Thunbergiana**. It will grow 8 to 10 feet the first year from seed, and after becoming established will produce vines 50 feet high in a season, sometimes growing 12 inches in a single day. Produces a tuberous root which is perfectly hardy. Unequaled for porches, arbors, trellises, etc. *Hardy Perennial*. 10c pkt.

LANTANA

- 266—**Verbena-like** heads of orange, white, rose and other colored flowers; constantly in bloom; 2 to 3 feet. *Half-hardy Perennial*. Mixed colors. 5c pkt.

LAVENDER (*Lavandula Vera*)

- 267—Well known, sweet-scented *Hardy Perennial*; should be extensively grown in the mixed border; 2 feet. 5c pkt.

ANNUAL LARKSPURS

THIS is one of the best known of garden flowers. Seeds sown in the open ground before the close of April will produce flowering plants by the beginning of July, and give a continuous succession of flowers from then until frost. *Hardy Annual*.

- 268—**Double Stock-Flowered**. The finest variety with splendid spikes of beautiful double flowers; 2 $\frac{1}{2}$ to 3 feet. Finest mixed. $\frac{1}{4}$ oz., 15c; oz., 50c; 5c pkt.

- 269—**Dwarf Rocket**. The flowers are large, double and of various beautiful colors, shadings and markings; long spikes of bloom. Oz., 30c; 5c pkt.

(For *Hardy Perennial Larkspurs* see *Delphinium*)

(*LADY SLIPPER*. See *Balsam*.)

LATHYRUS (Everlasting, or Hardy Sweet Pea)

Showy, free-flowering climbers for covering old stumps, fences, etc.; continually in bloom; fine for cutting. *Hardy Perennial*.

- 270—**Latifolius "White Pearl"**. The finest white variety. 10c pkt.

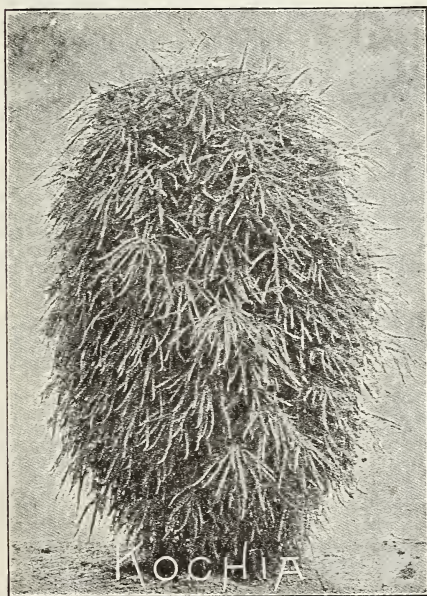
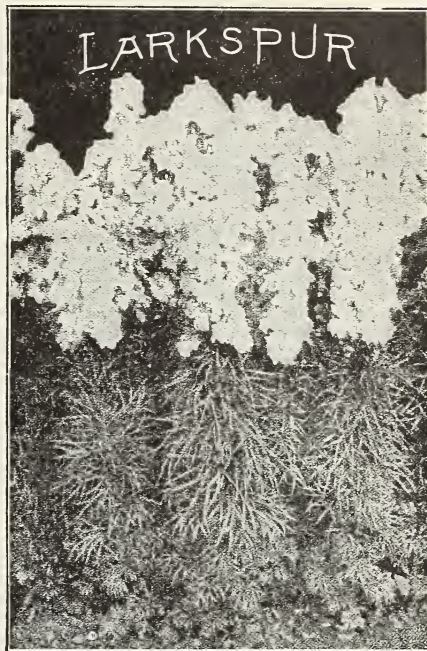
- 271—**Pink Beauty**. Rosy pink. 10c pkt.

- 272—**Mixed**. All colors. $\frac{1}{4}$ oz., 15c; oz., 40c; 5c pkt.

LINUM (Flax)

- 273—**Grandiflorum Rubrum**. (Scarlet Flax.) One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers. *Hardy Annual*; 1 foot. Oz., 25c; 5c pkt.

LOVE-IN-THE-MIST. (See *Nigella*.)



LOBELIA

THE following choice varieties of this popular and beautiful flowering plant will be found most desirable for pot culture, edgings, hanging baskets, etc., blooming profusely from June to November. *Half-hardy Annual.* *Cardinalis* is one of the finest native *Hardy Perennials*.

- 274—**Crystal Palace Compacta.** Rich blue; finest for bedding. 10c pkt.
 275—**Speciosa.** Dark blue; trailing; fine for vases. 5c pkt.
 276—**Cardinalis Hybrida.** Splendid hybrids, mixed; highly recommended. *Hardy Perennial*; 2 feet. 10c pkt.

LUPINUS (Lupine)

- 277—**Annual Mixed.** Free-flowering, easily grown annuals, with long, graceful spikes of rich and various colored pea-shaped flowers; 2 feet. *Hardy Annual.* Oz., 25c; 5c pkt.
 278—**Polyphyllus Roseus.** A fine variety of the perennial Lupine, with showy spikes of rose-colored flowers. *Hardy Perennial.* Oz., 50c; 10c pkt.
 279—**Perennial Mixed.** *Hardy Perennial* varieties, in pink, blue and white mixed. Oz., 30c; 5c pkt.

MARIGOLD (See also Calendula)

THE African and French Marigolds are free-flowering annuals of easy culture; the former have uniformly large, yellow or orange colored flowers. (See cut.) The latter are dwarfier in growth, with beautifully striped flowers. They succeed best in a light soil, with full exposure to the sun. *Half-hardy Annual.*

African Varieties

- 280—**Orange Prince.** Densely double flowers of a rich, deep golden orange color. ¼ oz., 20c; 5c pkt.
 281—**Lemon Queen.** Soft, lemon-yellow flowers, and forming a fine contrast to the preceding. ¼ oz., 20c; 5c pkt.
 282—**Finest Mixed African.** ¼ oz., 15c; 5c pkt.

French Varieties

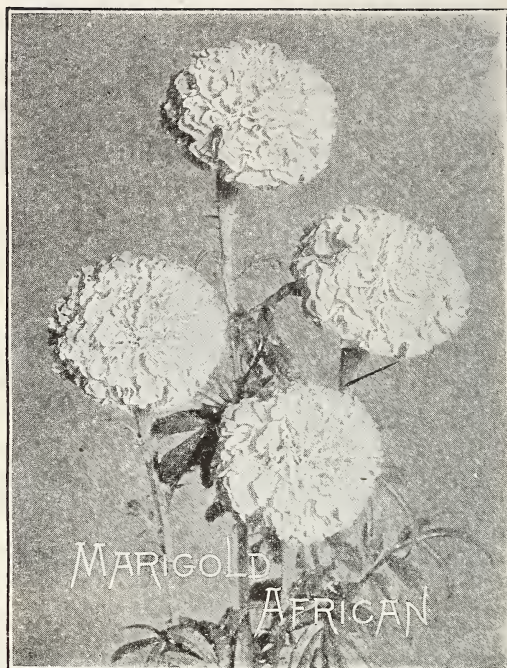
- 283—**Legion of Honor.** Single Dwarf Marigold, forming compact bushes. Flowers golden yellow and brown; blossoms in great profusion. ¼ oz., 25c; 5c pkt.
 284—**French Gold Striped.** Very double; 1 foot. ¼ oz., 15c; 5c pkt.

MARVEL OF PERU, or Four O'Clocks (Mirabilis Jalapa)

- 285—A well-known free-flowering garden favorite; does well everywhere; give each plant 12 to 18 inches of room. *Half-hardy Perennial.* Finest Mixed. Oz., 25c; 5c pkt.

MATRICARIA

- 286—**Capensis Alba Plena.** (Double White Feverfew.) Free-flowering plants, producing all season fine, double, white flowers. A fine bedding or pot plant. *Half-hardy Perennial.* 5c pkt.



MAURANDIA

Beautiful, rapid, slender growing climbers, blooming profusely until late in the autumn; also fine for the conservatory or greenhouse. A *Half-hardy Perennial*, flowering the first season if sown early.

- 287—**Barclayana.** Deep violet; fine. 10c pkt.
 288—**Finest Mixed.** All colors. 10c pkt.

MIGNONETTE (Reseda)

A well-known favorite. No garden is complete without a bed of Mignonette. *Half-hardy Annual.* (See cut.)

- 289—**Defiance.** One of the finest sorts; excellent for forcing. ¼ oz., 20c; 10c pkt.
 290—**Machet.** Dwarf pyramidal growth, with very large, thick spikes, fragrant. ¼ oz., 20c; 10c pkt.
 291—**Sweet-scented.** The old variety; but very sweetly scented. Oz., 15c; 5c pkt.

MIMOSA (Sensitive, or Humble Plant)

- 292—**Pudica.** Curious and interesting annuals, with pinkish-white flowers; the leaves close and droop when touched or shaken. *Half-hardy Annual.* 5c pkt.

MIMULUS

Fine for shady situations; blooming the first year from seed if sown early; 1 foot. *Half-hardy Perennial.*

- 293—**Tigrinus.** (Monkey Flower.) Fine mixed spotted varieties. 5c pkt.
 294—**Moschatus.** (Musk Plant.) Fine for hanging baskets, etc.; small yellow flowers, fragrant foliage. 5c pkt.

MOON FLOWER (Ipomoea Noctiflora)

Climbers of rapid growth, with beautiful and varied flowers; for covering walls, trellises, arbors or stumps of trees.

- 295—**Cross Bred or Hybrid Moon Flower.** At night and during dull days the plants are covered with an abundance of large, pure-white, fragrant flowers, 5 to 6 inches in diameter. It is a rapid grower, and within a few months will grow as much as 40 feet. To insure germination, take a sharp knife and cut a small nick in shell of each seed, and soak in warm water for about 4 hours before planting. *Tender Perennial.* ¼ oz., 20c; oz., 75c; 5c pkt.
 296—**Giant Pink Hybrids.** Similar to the above in habit of growth and bloom with pink flowers. ¼ oz., 20c; oz., 75c; 5c pkt.

Moon Flower Plants.
 Each, 20c; per doz., \$2.00; by mail, each 25c.

All 5c Packets of Flower Seeds are 6 Packets for 25c. All 10c Packets are 3 Packets for 25c.



MORNING GLORIES or Convolvulus

THE Morning Glory is too well known to need a description. Succeeds under almost all circumstances. *Hardy Annual*

- 297—**Morning Glories.** (Convolvulus Major.) Climbing varieties, mixed. Oz., 10c; $\frac{1}{4}$ lb., 25c; 5c pkt.
298—**Double Mixed Climbing.** The flowers are double and semi-double and some are fringed. 5c pkt.
299—**Imperial Japanese or Emperor Morning Glories.** The flowers are of gigantic size and their colors range from snow-white to black-purple, with all the possible intermediate shades. $\frac{1}{2}$ oz., 15c; Oz., 25c; 5c pkt.
300—**Ipomoea Setosa.** (Brazilian Morning Glory.) Branches in all directions and presents a remarkable appearance. Rosy pink flowers. Oz., 25c; 5c pkt.

MYOSOTIS (Forget-Me-Not)

The Forget-Me-Not's succeed best in shady, moist situations; *Half-hardy Perennial*.

- 301—**Alpestris Victoria.** Early flowering, of bushy habit, bearing large, bright, azure-blue flowers. 10c pkt.
302—**Dissitiflora.** Of dwarf compact habit, flowers rich blue, early. 10c pkt.
303—**Palustris.** The true Forget-Me-Not; beautiful blue flowers; 6 inches. 10c pkt.
304—**Palustris Semperflorens.** A dwarf Forget-Me-Not continuing in bloom from early Spring until autumn; blue flowers. 10c pkt.

NASTURTIIUMS

FOR ease of culture, duration of bloom, brilliance of coloring and general excellence, nothing excels Nasturtiums. All they need is a moderately good soil in a well-drained sunny position. The varieties offered below were selected from a very large number of sorts as being the best and most distinct *Half-hardy Annual*.

Tall, or Climbing Varieties

Elegant and luxurious climbers for verandas, trellises, etc. May be used to cover unsightly railings and to trail over rough ground with fine effect. The seedpods can be gathered while green and tender for pickling; 6 to 10 feet.

- 305—**Chameleon.** Different richly-colored flowers on the same plant.
306—**Crimson.** Rich and velvety.
307—**Fulgens.** Dazzling crimson flowers, dark foliage.
308—**Gold Garnet.** Orange yellow, garnet blotches.
309—**King Theodore.** Deep crimson maroon, dark foliage.
310—**Yellow.** Clear yellow white with few red veins.
311—**Orange.** Pure orange; no markings.
312—**Pearl, or Moonlight.** Creamy white.
313—**Rose.** Salmon rose; an exquisite shade.
314—**Ruby.** Deep scarlet flowers.
315—**Schulzii.** Rosy scarlet flowers, dark foliage.
316—**Rich Yellow.** Spotted garnet.

- Price—Any of the above Tall sorts.
Oz., 20c; $\frac{1}{4}$ lb., 60c; 5c pkt.
317—**Collection.** 6 varieties. 25c.
318—**Collection.** 12 varieties. 40c.

319—**McCullough's "Premier" Mixture of Tall Nasturtiums** Contains all the new Giant Flowering kinds together with many other grand new hybrids, embracing every shade and tint of yellow, rose, scarlet, orange, carmine, violet, purple, lemon, bronze, maroon, ruby, cream and pink, both in solid colors and mottled and striped.

- Oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00; 5c pkt.
320—**Mixed Tall Nasturtiums.** For the low price, this mixture is very choice but will not give as fine flowers as our "Premier" listed above.
Oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25; 5c pkt.

Lobb's Nasturtiums

THERE is little difference between these and the tall Nasturtiums. They are rich in the red shades.

- 321—**Finest Mixed.** 5c pkt.

Miscellaneous Varieties

- 322—**Hybrids of Madame Gunter.** For richness and variety of colors these have no equal among Nasturtiums. The foliage is mostly dark. Oz., 20c; 5c pkt.
323—**Tall Ivy Leaved.** Thick, green, lobed leaves, resembling those of the English Ivy. The flowers are of a delicate fringed formation. Oz., 20c; 5c pkt.
324—**Tall Variegated Leaved.** The foliage is variegated, rendering the plants very ornamental even when not in flower. Oz., 20c; 5c pkt.

TROPAEOLUM CANARIENSE.
(See Canary Bird Flower.)



Dwarf, or Bedding Varieties

THEY are suitable for hanging baskets, vases, window boxes, bedding and edging; grow quickly, thrive in the poorest soil and furnish the greatest abundance of long lasting, sweet-scented cut flowers.

- 325—**Beauty.** Yellow-striped red.
326—**Chameleon.** This interesting variety produces flowers of different colors on the same plant.
327—**Crystal Palace Gem.** Sulphur, spotted maroon.
328—**Empress of India.** Crimson flowers, dark foliage.
329—**Golden King.** Brilliant yellow.
330—**King of Tom Thumbs.** Intense deep scarlet flowers, dark foliage.
331—**King Theodore.** Dark Maroon, bluish-green foliage.
332—**Pearl, or Moonlight.** Creamy white.
333—**Prince Henry.** Golden yellow, marbled and spotted with brilliant scarlet.
334—**Regalianum.** Deep purplish crimson
335—**Rose.** Salmon rose.
336—**Vesuvius.** Brilliant salmon pink.
337—**Variegated Leaved Mixed.** All colors.

- Price—Any of the above Dwarf sorts.
Oz., 20c; $\frac{1}{4}$ lb., 60c; 5c pkt.
338—**Collection.** 6 varieties. 25c.
339—**Collection.** 12 varieties. 40c.

340—**McCullough's "Premier" Mixture of Dwarf Nasturtiums** Will give a larger variety of colors in even proportions than any other Nasturtium mixture, for it is put up by ourselves from named sorts, and also contains a large share of the Lilliput Nasturtium and of the Dwarf Chameleon which have the richest and most varied combination of colors ever produced, showing odd colors hitherto unknown among flowers.

- Oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00; 5c pkt.
341—**Dwarf Nasturtiums Mixed.** We handle such large quantities of Dwarf Nasturtiums that we are able to offer this especially choice mixture at a very low price. See also our "Premier" mixture listed above.
Oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25; 5c pkt.

NEMESIA

- 342—**Strumosa Grandiflora.** Flowers range in color from crimson to golden yellow and are large and brilliant. *Half-hardy Annual.* 3 pkts., 25c; 10c pkt.
343—**Blue Gem Compacta.** The flowers are a soft azure blue. Fine for borders, edgings or small beds; 6 to 8 inches. *Half-hardy Annual.* ... 3 pkts., 25c; 10c pkt.

NICOTIANA

(Sweet Scented Tobacco Plant)

One of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia blossom, but with a longer tube. The flowers open toward evening and emit a powerful perfume. *Hardy Annual.*

344—*Afinis.* Large, pure white flowers of delicious fragrance. If taken up in the Fall, cut back and potted, they will bloom all winter. 5c pkt.

345—*Sanderae Hybrids.* A showy and profuse flowering, half-hardy annual, giving a continuous display of brilliant flowers through Summer and Autumn. The plant is of branching, bushy habit, 2 to 3 feet high, and carries the flowers in clusters. The flowers measure from 1½ to 2 inches across and remain open all day. Many colors, mixed. 5c pkt.

NIGELLA

(Love in a Mist, or Devil in the Bush)

346—*Miss Jekyll.* Lovely variety giving an abundance of long-stemmed flowers which are of a clear cornflower-blue, prettily set in slender elegant foliage. One of our most attractive annuals. The plants are extremely hardy, and an Autumn sowing produces the best specimens for flowering in the following Summer. Height, 18 inches. *Hardy Annual.* 10c pkt.

347—*Finest Mixed.* 10c pkt.

PANSY

PANSY seed has always been a leading specialty with us. Seed germinates best while soil is still cool and moist. Would advise sowing in shallow drills in seed-bed early in Spring when the trees are starting out in leaf, and again in September when the weather becomes cool. As above stated, plants from the Spring-sown seed flower with great freedom throughout Spring, Summer and Fall, while the stocky young plants grown in Fall and Winter produce the largest and finest flowers early the following Spring. Take care of the weakest looking seedlings, as they usually give the finest flowers. *Half-hardy Perennial.*

Mastodon Pansies

A new strain of American Grown Mammoth Flowering Varieties.

348—*Adonis.* Light blue flowers, marked with a yellowish-white face and large dark blotches. 2 pkts., 25c; 15c pkt.

349—*Blue Perfection.* The best dark blue flowers of immense size. 2 pkts., 25c; 15c pkt.

350—*Candidissima.* The finest and largest pure white flowers. 2 pkts., 25c; 15c pkt.

351—*King of the Blacks.* Flowers of immense size, nearly all jet black and velvety in substance. 2 pkts., 25c; 15c pkt.

352—*Madame Perrett.* Colors are dark wine, pink and red, with edges of petals frilled and bordered white. 2 pkts., 25c; 15c pkt.

353—*Meteor.* Flowers a beautiful shade of wine red, very free bloomer. 2 pkts., 25c; 15c pkt.

354—*Panama Pacific.* Flowers of immense size, deep yellow. 2 pkts., 25c; 15c pkt.

355—*Parisian Yellow.* Flowers of pure yellow, of grand form and size. 2 pkts., 25c; 15c pkt.

356—*Vulcano.* Flowers a rich, velvety burgundy-red, of immense size; finest red pansy grown. 2 pkts., 25c; 15c pkt.

357—*McCullough's "Premier" Pansies* The cream of American and European Specialists. In this magnificent mixture of mammoth-flowering Pansies the blossoms are borne on long stems well above the foliage and are distinguished for their gorgeous and varied colorings and beautiful markings; of fine substance, velvety texture, perfect form, and giant size frequently measuring 3 inches in diameter. The colorings are wonderfully rich and varied; every shade and tint of rose, canary-yellow, black, white, cream, lavender, garnet, sky-blue and orange are produced in endless variation. ½ oz., \$1.00; ¼ oz., \$1.75; 25c pkt.

358—*McCullough's "Special" Mixture* A superior mixture selected from choice, large flowering strains of English and French growers. This strain is one of great excellence, the individual flowers being superb and include many fine shades in a number of colorings, and is intended to supply the want of a first-class mixture at a moderate price. ½ oz., 60c; ¼ oz., \$1.00; 15c pkt.



Type of Mastodon Pansy

359—*McCullough's Choice Mixed*

Great diversity of colors, free flowering, blossoms are slightly smaller than the Giant sorts. ½ oz., 15c; ¼ oz., 25c; 5c pkt.

Violas, or Tufted Pansies

(Also known as Pansy Violets, Johnny-Jump-Ups, etc.)

OUR improved strain produces beautiful Pansy-like blossoms, of most brilliant colors and markings. The plants are more hardy than Pansies, and of vigorous growth, forming deep-rooting, compact, tufted clumps. Planted in masses or lines they form perfect mats covered with myriads of flowers from Spring until cold weather.

360—*McCullough's Special Mixture*

of Improved Tufted Pansies. ½ oz., 35c; ¼ oz., 60c; 10c pkt.

PETUNIA

For outdoor decoration or house culture few plants equal the Petunia in effectiveness. Easily cultivated, only requiring a good soil and sunny position. *Hardy Annual.*

Double Large-Flowering

IT IS well known that seed saved from the most carefully hybridized flowers produces but a small percentage of double flowers, the balance being singles of unusually fine quality. The weaker seedlings should be carefully saved, as these invariably produce the finest double flowers.

361—*McCullough's Splendid Double Fringed* One of the finest strains in existence. The double flowers are very large, full and beautifully formed, having the edges of the petals elegantly fringed. 35c pkt.
362—*Large Double Mixed.* Choice strains of fine colors and large flowers. 25c pkt.

Single Large-Flowering

THE weaker seedlings produce the finest flowers of best colorings. It is best to sow Petunias indoors and transplant to the open in May. The Single Bedding kinds can be sown right out of doors in May.

363—*McCullough's "Mammoth" Single* This mixture is made by ourselves and includes, besides the Ruffled and California Giants, all the colors of the large-flowering and fringed sorts, and the unsurpassed Superbissima varieties, with their delicately veined throats in various colors and their truly mammoth flowers. 3 pkts., 50c; 20c pkt.
364—*Ruffled Giants.* Very large flowered; ruffled, fluted and fringed, striped and mottled, blotched and solid self-colors. 15c pkt.
365—*Large Flowering Single, Finest Mixed.* Superb strain from show flowers; very large and of great substance. 2 pkts., 25c; 15c pkt.

All 5c packets of Flower Seeds are 6 packets for 25c. All 10c packets are 3 packets for 25c.

PETUNIA—Continued

Single Bedding Petunias

- 366—Howard's Star. A beautiful free-flowering strain, crimson maroon with a clearly-defined five-pointed star of bluish white. 3 pkts., 25c; 10c pkt.
- 367—Rosy Morn. Carmine pink with white throat. . . 10c pkt.
- 368—Brilliant. Carmine pink. 10c pkt.
- 369—Dwarf Inimitable. Compact growing variety; flowers cherry-red with a white center. 10c pkt.
- 370—Pure White. For cemetery beds. 5c pkt.
- 371—Striped and Blotched. Fine for massing. $\frac{1}{4}$ oz., 30c; 5c pkt.
- 372—McCullough's "Selected" Bedding Varieties, Mixed Superb strain. $\frac{1}{4}$ oz., 50c; 10c pkt.
- 373—Fine Mixed. Good. $\frac{1}{4}$ oz., 25c; 5c pkt.

McCULLOUGH'S ANNUAL PHLOX

FEW flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost and care. The first sowing should be made as soon as the frost is out of the ground in Spring, later ones in May, either where the plants are to bloom or in a seed-bed, as the Phlox transplants readily. (See cut.)

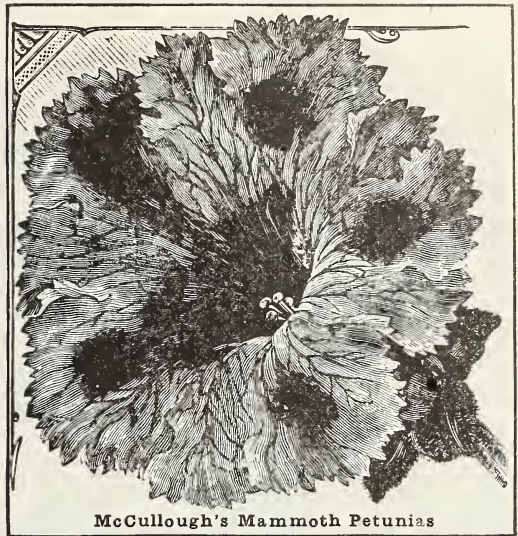
McCullough's Giant Phlox

- 374—McCullough's Giant Flowering Is a special mixture of Phlox; has very large, perfectly round flowers, and will produce immense trusses of flowers which will surpass every other variety in extreme richness of color and duration of bloom. It grows very compact. To prolong blooming, the seed pods should be removed as soon as they form. A bed of McCullough's Giant Phlox makes a grand display all Summer. $\frac{1}{4}$ oz., 30c; $\frac{1}{4}$ oz., 50c; 10c pkt.
- 375—Phlox Drummondii, Mixed Colors. Flowers not so large as the Grandiflora type offered, but are very free-flowering and effective. $\frac{1}{4}$ oz., 30c; oz., \$1.00; 5c pkt.

Large-Flowering Dwarf

A type combining the size of the individual flower and head of the Grandifloras, but of dwarf, compact growth.

- 376—Finest Mixed Colors (Dwarf Varieties). 10c pkt.



Star Phlox

- 377—Phlox Cuspidata. (Star of Quedlinburg.) Of dwarf habit with very pretty star-shaped flowers. A novel variety; mixed colors. 10c pkt.

Hardy Perennial Phlox (P. Decussata)

Hardy Herbaceous Perennial and quite distinct from the varieties of Phlox Drummondii, which are annuals. For best results should be sown as soon as frost is out of the ground in Spring or as soon as gathered in the Autumn.

- 378—Mixed. All varieties. $\frac{1}{4}$ oz., 60c; 10c pkt.

POPPIES

Double Annual Poppies

THEY make a gorgeous show during their flowering period, and are largely used for beds and borders. Should be sown as early in the spring as possible where they are to remain, as they do not stand transplanting. Sow very thinly. *Hardy Annual.*

- 379—American Flag. Beautiful variety; flowers very large and double, snow white, bordered with scarlet. Oz., 30c; 5c pkt.

- 382—White Swan. Immense double flowers, beautifully fringed and of purest white. Oz., 25c; 5c pkt.

- 383—Carnation Flowered. Splendid double fringed flowers, mixed colors. 5c pkt.

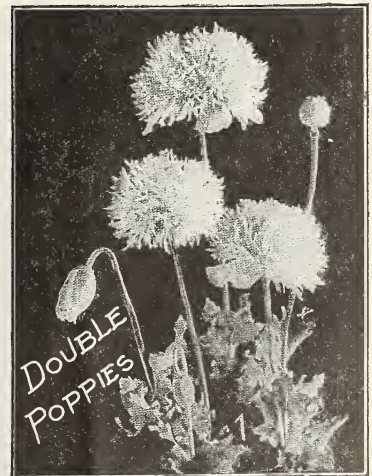
- 384—Paeony Flowered. Large, showy, double globular flowers, resembling a double Paeony; mixed colors. Oz., 20c; 5c pkt.

- 385—McCullough's Special Mixture of Double Poppies

This includes all the above sorts and many others, and will produce charming flowers in an endless variety of colors.

- $\frac{1}{2}$ oz., 15c; oz., 25c; 5c pkt.

Poppies continued to next page.



POPPIES—Continued

Single Annual Poppies

ANNUAL Poppies should be sown as early in the spring as possible where they are to remain, as they do not stand transplanting. Sow very thinly. If they come up too thickly they must be thinned out to stand 3 to 4 inches or more apart if you wish best results. *Hardy Annual.*

386—**McCullough's Select Shirley** They are single and occasionally semi-double, and range in color from the purest white through the delicate shades of pale pink, rose and carmine to the deepest crimson and blood-red, while many are daintily edged and striped. In fact, so varied are they that scarcely any two flowers are exactly alike. (See cut.)

¼ oz., 15c; oz., 40c; 5c pkt.

387—**Admiral.** A single paeony-flowered variety of surpassing beauty, having large, smooth-edged flowers of glistening white, with a broad band of brilliant scarlet around the top. These two colors form a very striking contrast, and when planted in groups produce a magnificent effect.

Oz., 40c; 5c pkt.

388—**Danebrog, or Danish Cross.** Very showy variety, producing large flowers of brilliant scarlet, with a silvery-white spot on each petal, forming a white cross.

Oz., 40c; 5c pkt.

389—**Fire Dragon.** Very showy flowers of brilliant deep scarlet, with black spots, margined white; 2 to 2 ½ feet.

¼ oz., 25c; 5c pkt.

390—**Tulip Poppy.** (*Papaver Glaucum.*) One of the most brilliant; the flowers are 3 inches across and closely resemble the brilliant Scarlet Gesneriana Tulip; an elegant and distinct variety. Plants from 16 to 18 inches high, producing well above the foliage fifty to sixty large splendid flowers of the most vivid scarlet imaginable. From a mere description no adequate idea can be gained of its strikingly beautiful effect. The plant commences blooming early in June, and flowers abundantly for a period of from six to eight weeks. ¼ oz., 20c; oz., 60c; 5c pkt.

391—**The Bride.** A beautiful variety with very large, pure white, perfectly-formed flowers. Oz., 25c; 5c pkt.

392—**McCullough's Special Mixture of Single Poppies** This mixture includes all the above choice Poppies and many other kinds not listed. It is really extra choice. ½ oz., 15c; oz., 25c; 5c pkt.

(For Double Flowering Poppies, see preceding page.)

Hardy Perennial Poppies

ORIENTAL and *Bracteatum* Poppies should be sown in early Spring in the open ground as soon as it is fit to work. The plants disappear during July and August, appearing again as soon as the weather gets cool. When this fall growth starts is the time they should be transplanted to their permanent flowering quarters. It is well to mark the places they are planted with a stake to insure the roots against disturbance during their annual resting period.

393—**Bracteatum.** Immense orange-scarlet flowers, similar to the Oriental Poppy ¼ oz., 25c; 5c pkt.



394—**Orientele.** (The large Oriental Poppy.) A charming summer-flowering hardy plant, producing numerous leafy stems about 2 ½ feet high, with large, deep crimson flowers, having a conspicuous black blotch on each petal; exceedingly showy. ¼ oz., 25c; 5c pkt.

395—**McCullough's Special Mixture of Orientele Hybrids** Contains the preceding and many more beautiful hybrids of the Oriental Poppy, producing flowers of immense size, 6 inches and over in diameter, and of many novel colors. ¼ oz., 50c; 10c pkt.

Iceland Poppies (*Papaver Nudicaule*)

WHILE these are hardy perennials, they flower the first year from seed, blooming almost as quickly as the annual sorts. They are of graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks about 12 inches high, bearing their brilliant flowers in endless profusion; most useful for cutting, for which purpose pick when in bud, for if the seed pods are picked off, they continue in flower the entire season. They remain evergreen throughout the Winter, coming into bloom early the following Spring. *Hardy Perennial.*

396—**Finest Mixed.** All colors. . . . ¼ oz., 25c; 5c pkt.

PORTULACA (*Sun Plant or Rose Moss*)

ONE of our finest *Hardy Annual* plants, of easy culture, thriving best in a light loam or sandy soil, and luxuriating in an exposed, sunny situation; the flowers are of the richest colors, and produced throughout the Summer in great profusion; fine for massing in beds, edgings of rock-work; 6 inches. (See cut.)

397—**Single Mixed Colors.** Oz., 60c; 5c pkt.

398—**Double Mixed.** A large percentage of the flowers will come perfectly double. ¼ oz., 75c; 10c pkt.

NOTE: Our list of flower seeds will be found to contain all varieties of real merit. Many times varieties are listed which are of little value in the garden, and others are so difficult to grow that unless one has every facility for propagation, disappointment is sure to follow the purchase of seed. We want our seeds to give satisfaction and our selection of varieties for this catalogue has been made with the greatest care. Cultural directions will be found on most of our seed packets.

PRIMULA

THE beautiful Chinese Fringed Primroses and Obconica and Forbesi varieties are indispensable for winter or spring decorations in the home or conservatory. They are one of the most important winter blooming pot plants. The seed we offer has been saved from the best strains of English and Continental growth. Sow in March, April or May. The hardy varieties are also deserving of wide cultivation

Primula Chinensis Fimbriata

FRINGED CHINESE PRIMROSES

The seed should be sown in light soil, but for final potting a richer soil is necessary, consisting of two parts loam to one each of well decayed manure and leafmold. *Greenhouse Perennial.*

- 399—Alba Magnifica. The finest pure white with bright yellow eye, beautifully fringed. 20c pkt.
- 400—Chiswick Red. Large brilliant scarlet, finely fringed. 20c pkt.
- 401—Coerulea. Fine blue; excellent. 20c pkt.
- 402—Delicata. Delicate rose; finely fringed. 20c pkt.
- 403—McCullough's Choicest Mixed. This mixture contains nothing but the finest sorts of Chinese Primroses. (See cut.) 20c pkt.



Primula Obconica

THESE are of the easiest culture in greenhouses or light window of dwelling house, flowering abundantly and continuously with little care, and should be sown during the Spring in good, porous loam. They will not germinate well in any compost containing peat or leafmold. To develop the colors to the highest degree, grow in heavy soil, and at a temperature as near 60 degrees as possible. The Grandiflora varieties are the freest flowering, but lack the very large individual blooms of the newer Gigantea type. *Greenhouse Perennial.*

- 404—Primula Obconica Grandiflora. Very large flowers with nicely fringed and toothed petals. The flowers are produced in constant succession, ranging in color from white, red to rose. 10c pkt.
- 405—Primula Obconica Gigantea. This new variety is the finest yet introduced; of strong, vigorous growth with immense heads of large individual blooms. Varies in color from pale lilac to rose, white and red. . . 15c pkt.

Various Sorts

- 406—Forbesi. (Baby Primrose.) This is the freest-flowering primula we know of. The little plants throw up tiny rosy-lilac flowers when only a few weeks old. 10c pkt.
- 407—Malacoides. A fine house plant, somewhat like P. Forbesi, but larger in all its parts; flowers delicate lilac. 15c pkt.

Hardy Primroses

These are among the best of the early spring-blooming plants. *Half-hardy Perennial.*

- 408—Auricula. Finest mixed. Extra choice; saved from a prize collection. 10c pkt.
- 409—Veris. (Polyanthus.) Splendid colors; extra fine. 10c pkt.
- 410—Vulgaris. True English Primrose; canary yellow, fragrant flowers. 10c pkt.

PYRETHRUM

ONE of the most valuable of our summer flowers. They flower in May and June, and frequently in August and September the second time. *Hardy Perennial.*

- 411—Hybridum Grandiflorum. This large flowering single strain is saved from a fine collection. Bear large Daisy or Cosmos-like flowers, ranging in color from light pink to deep red, with bright yellow centers; blooms in May and June and again in the Fall. One of the most graceful and long-lasting cut flowers. 1/4 oz., 50c; 10c pkt.
- 412—Hybridum Fl. Pl. Large semi-double flowers, resembling a China Aster, only more refined; extra choice selected seed; mixed colors. 25c pkt.
- 413—Pyrethrum Aureum. It is the well-known Golden Feather used for edging, carpet-bedding, etc. . . 5c pkt.

RHODANTHE (Swan River Everlasting)

IF wanted for bouquets the flowers should be gathered before they fully expand. If allowed to grow too long they open too much, and lose their beautiful bell form. Flowers everlasting. *Half-hardy Annual.*

- 414—Maculata. Mixed, all colors. 5c pkt.

RICINUS (Castor Bean)

KNOWN as "Castor Oil Plant" and "Palma Christi." Highly ornamental and stately growing plants of tropical origin, with luxuriant foliage of varied colors and brilliant colored fruit. Sow as soon as the ground is warm. *Half-hardy Annual.*

- 415—Cambodgiensis. The main stem and leaf stalks are of shining ebony black; the leaves are very large and richly colored, changing to different shades; 6 feet. Oz., 30c; 5c pkt.
- 416—Sanguineus. Blood-red stalks and clusters of red fruit; 8 feet. Oz., 30c; 5c pkt.
- 417—Zanzibariensis. A distant class, which surpasses in size and beauty all varieties. The plants attain great dimensions, presenting a splendid aspect with their gigantic leaves. The different varieties included in our mixture have light and dark green leaves and some of coppery-bronze, changing to dark green, with reddish ribs. The seeds are quite distinct in color and beautifully marked. 8 to 12 feet. Oz., 30c; 5c pkt.
- 418—Mixed. All sorts. Oz., 25c; 5c pkt.

RUDBECKIA (Cone Flower)

- 419—Bicolor Superba. Fine free-flowering annual variety, growing about 2 feet high, forming a dense bush and producing its bright flowers in great abundance on long stems. The disc is brown, the florets golden-yellow, with large velvety-brown spots at the base; very effective and useful for cutting. *Half-hardy Annual.* 10c pkt.
- 420—Newmani. One of the finest of autumn-flowering perennials, bearing large flowers. Bright orange-yellow petals, surrounding a large black cone; a showy flower. *Hardy Perennial.* 10c pkt.
- 421—Purpurea. (Giant Purple Cone-Flower.) An interesting flowering plant, producing all summer, large, showy, reddish-purple flowers; about 4 inches across, with a remarkably large cone-shaped center of brown; thickly set with golden tips in spiral lines. *Hardy Perennial.* 10c pkt.

See McCullough's Collection of
"Easy to Grow" Flower Seed. They may save you money
Illustrated on 4th page of cover

SALPIGLOSSIS (Painted Trumpet)

THE blossoms are tube shaped much like a Petunia but rivaling the latter in the beautiful colors displayed. Seed should be sown early in spring in a hotbed or window and transplanted when weather is settled or directly out-of-doors after danger of frost. *Half-hardy Annual.* (See cut.)

- 422—McCullough's Special Mixture. This mixture is put up by ourselves of separate varieties and is without doubt the best mixture obtainable. $\frac{1}{4}$ oz., 50c; 10c pkt.
- 423—Emperor. This variety forms only one leading stem, and bears on its summit a veritable bouquet of the most beautiful flowers, each one richly veined with gold. 10c pkt.
- 424—Finest Mixed. All colors. . . . $\frac{1}{4}$ oz., 30c; 5c pkt.

SALVIA (Flowering Sage)

SEED should be sown as early as possible, either indoors or in a hotbed, and the young plants transferred to their flowering quarters when the weather has become settled and warm. *Half-hardy Perennial.*

- 425—"Bonfire," or "Clara Bedman." Grows in a compact bush about 2 feet high by 2 feet in diameter. Its erect spikes of flowers of brilliant scarlet stand clear above the dark-green foliage and completely cover the plant. (See cut.) $\frac{1}{4}$ oz., 75c; 10c pkt.
- 426—Ball of Fire. The most compact type of Scarlet Sage yet introduced, and more popular for beds or borders requiring a variety of dwarf habit, than the regular Scarlet Sage or the variety "Bonfire." $\frac{1}{4}$ oz., \$1.00; 10c pkt.
- 427—Splendens. (Scarlet Sage.) One of the finest Summer and Fall plants with magnificent brilliant scarlet flowers; 2 feet. $\frac{1}{4}$ oz., 60c; 10c pkt.

SCABIOSA

(Mourning Bride, Sweet Scabious, Pin-cushion Flower)

The beautiful flowers in exquisite shades are borne on long stems, and when cut keep in perfect condition for the best part of a week. *Hardy Annual.*

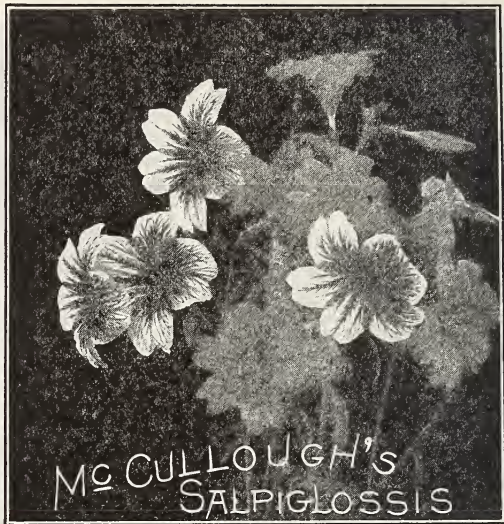
- 428—Azure Fairy. 431—King of the Blacks. 429—Lavender-blue. 432—Rose. 429—Crimson. 433—White. 430—Flesh Pink. Any of the above colors. $\frac{1}{4}$ oz., 20c; 5c pkt. 25c.
- 434—Collection. One packet each of the above 6 varieties. $\frac{1}{4}$ oz., 15c; oz., 50c; 5c pkt.
- 435—Mixed. All colors of the Improved Large-flowering. $\frac{1}{4}$ oz., 15c; oz., 50c; 5c pkt.

Hardy Perennial Scabiosa

- 436—Caucasica. (Blue Bonnet.) Especially valuable for cutting, the blooms lasting a long time in water; lilac-blue, 3 feet. *Hardy Perennial.* 10c pkt.
- 437—Japonica. A *Hardy Perennial* variety from Japan, forming bushy plants $2\frac{1}{2}$ feet in height, and bearing on long wiry stems beautiful, lavender-blue flowers. A fine cut flower. 10c pkt.



Salvia—"Bonfire"

**SCARLET RUNNER BEANS**

- 438—A great favorite in Europe, not only as an ornamental climber, but for the delicious, edible pods which succeed the bright scarlet, pea-shaped blossoms. *Tender Annual.* . . . Large pkt., 10c; small pkt., 5c.

SENSITIVE PLANT. (See Mimosa.)

SHASTA DAISY. (See Hardy Chrysanthemum.)

SCHIZANTHUS

(Poor Man's Orchid, or Butterfly Flower)

THIS is one of the daintiest flowers, especially adapted to bordering beds of taller flowers and those of a heavier growth. The seeds germinate quickly and come into bloom in a few weeks from sowing. The florescence is such as to completely obscure the foliage, making the plants a veritable pyramid of the most delicate and charming blooms. *Half-hardy Annual.*

- 439—Wisetonensis. A charming annual with graceful fern-like foliage and a profusion of flowers varying from white with yellow eye to a brilliant rose with bronzy brown center. A really beautiful subject for the flower border and as a pot plant for the house or conservatory. It is remarkably free-flowering, and presents a beautiful appearance with its myriads of blooms. A very shy seeder. 10c pkt.
- 440—Mixed. A splendid mixture. Neat pyramidal bushes covered with a multitude of small butterfly-like flowers of the most brilliant and striking color designs. . . 5c pkt.

SMILAX (Myrsiphyllum Asparagoides)

- 441—Smilax is the most useful climber which adorns the greenhouse or conservatory. *Tender Perennial.* $\frac{1}{4}$ oz., 25c; 10c pkt.

SOLANUM

- 442—Capsicastrum. (Jerusalem Cherry.) This is a very useful pot plant for Winter decoration. It is of dwarf, branching habit, leaves small and oval-shaped, bearing in the greatest profusion bright scarlet globular berries. Very ornamental; 1 foot. *Tender Perennial.* . . 10c pkt.

STOCKS (Gilliflower)

STOCK seed may be sown in the open ground, or in the hotbed or cold frame, but if transplanted, let this be done when the plants are small, just out of the seed-leaf, or the plants become slender and never make good plants nor flower well.

- 443—McCullough's Cincinnati Market. A fine perpetual blooming stock, producing one long, sturdy spike, closely set with enormous double flowers. A grand variety. 10c pkt.

- 444—Princess Alice. (Cut and Come Again.) If sown early it commences blooming in June and continues until frost. It throws out numerous side branches bearing clusters of very double, pure white, fragrant blossoms, and is excellent for cutting. 10c pkt.

STOCKS—Continued

Giant Perfection Ten Week Stock

This magnificent strain is without a rival for open-ground planting, attaining a height of 2½ feet. The spikes of bloom are long and the individual flowers are enormous in size and very double. *Half-hardy Annual.* (See cut.)

- 445—Light Blue.....10c pkt. 448—Purple.....10c pkt.
446—Bright Pink.....10c pkt. 449—White.....10c pkt.
447—Blood Red.....10c pkt.
450—Finest Mixed Perfection. All colors.....10c pkt.
451—Dwarf Fine Mixed. For outdoor bedding.....5c pkt.

Mammoth-Flowering Beauty Stock

A magnificent recently developed strain of early flowering Winter Stocks, forming much-branched plants about 2 feet high and having numerous spikes of very large, double, delightfully fragrant flowers. If sown in March will produce plants that will bloom out of doors. *Half-hardy Biennial.*

- 452—Almond Blossom. White shaded carmine, superb. 10c pkt.
453—Beauty of Nice. Delicate flesh pink.10c pkt.
454—Lilac. Deep lilac, beautiful color and large spikes. 10c pkt.
455—Mont Blanc. Purest white.10c pkt.
456—Queen Alexandra. Soft rosy-lilac.10c pkt.
457—Beauty Stocks, Mixed.10c pkt.

STOKESIA (Cornflower or Stokes' Aster)

PLANTS grow about 15 to 18 inches high, bearing freely from July to October handsome Centaurea-like blossoms, each measuring from 4 to 5 inches across; it is of easy culture, and one of the most desirable plants for the hardy border, and also for cutting. *Hardy Perennial.*

- 458—Cyanæa. Light blue.10c pkt.
459—Cyanæa Alba. Pure white.10c pkt.

SUNFLOWER (Helianthus)

REMARKABLE for the stately growth, size and brilliancy of their flowers, making a very good effect among shrubbery and for screens. *Hardy Annual.*

Double Annual Sunflowers

- 460—Chrysanthemum-Flowered. The plants grow 6 to 7 feet and produce a great number of double flowers. Oz., 30c; 5c pkt.
461—Globosus Fistulosus. (Dahlia Sunflower.) Flowers large, double, of a rich saffron color, 6 feet. Oz., 30c; 5c pkt.
462—Mammoth Russian. Extra large flowers, with an abundance of seed.Oz., 10c; ¼ lb., 25c; 5c pkt.
463—Double Varieties, Mixed.Oz., 25c; 5c pkt.

Hardy Perennial Sunflowers

- 464—Mixed. Contains the finest single-flowering *Hardy Perennial* sorts. Seeds sown early will produce flowering plants the first year; as subjects for the hardy border as well as for cutting they are of great value. ¼ oz., 65c; 10c pkt.

points of all. The colors run through many combinations of yellow with brilliant reds and bronzes, and some solid red plants; grow 5 to 8 feet high; flowers 5 to 8 inches in diameter. ¼ oz., 40c; 10c pkt.

SWEET WILLIAM (Dianthus Barbatus)

WE are pleased to see that the merits of this sturdy, old-fashioned flower are being more generally recognized and its cultivation greatly extended. Beautiful, fragrant and easily grown, it is worthy of a place in every garden. The best varieties of Sweet William are of exceedingly beautiful colors, and the large fragrant flowers are borne in trusses of great size. They make a splendid show in the garden or hardy border and last well as cut flowers. Seed may be sown at any time from Spring to Midsummer. Seed planted early will bloom in the Fall. It is better to sow seed every year to have young plants, as they flower more freely. *Hardy Perennial.* Height, 1½ to 2 feet.

- 468—Holborn Glory. This strain is a large-flowered selection of the Auricula-Eyed section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, and the range of color, all showing a clear, white eye, is superb. 5c pkt.

469—McCullough's
Selected Single Mixed

A very choice assortment of all the best single-flowering varieties.

¼ oz., 20c; 5c pkt.

- 470—Double Mixed. This mixture you will find of very superior quality; containing all colors and shades.5c pkt.

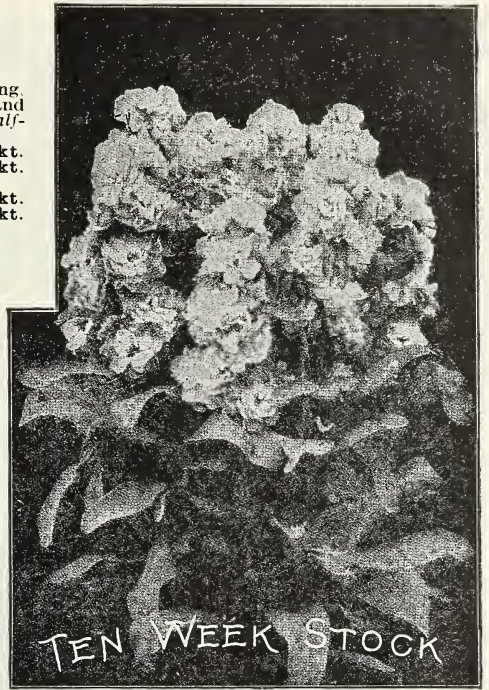
SWEET SULTANS. (See Centaurea.)

SNOW-ON-THE-MOUNTAIN. (See Euphorbia.)

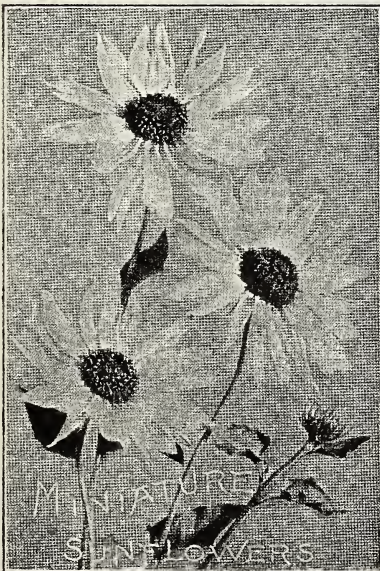
SNAPDRAGON. (See Antirrhinum.)

HINTS ON THE CULTURE OF FLOWERS FROM SEED.

Much annoyance and disappointment may be saved by giving close attention to the following: Avoid especially deep planting, over-watering, under-watering, or sowing too thickly.



TEN WEEK STOCK



McCULLOUGH'S SELECT SWEET PEAS

It Would be an Easy Matter for Us to Greatly Extend Our List; but We Think it Best to Confine Our Offers to Such Sorts as are Really First-Class.

HOW TO GROW SWEET PEAS.—The principal essential for the best success is a cool, deep, moist soil, and a sunny situation. The ground should be prepared deep and rich. Fall preparation, where possible, is preferable, but if done in the spring, use no green manure. Bone meal is good if old rotted manure can not be obtained. Sow early, as Sweet Peas need the cold, moist spring ground to make the root growth. In the latitude of Cincinnati, February is not too early. In the South, sow in the fall. Sow the seed in deep furrows, the bottom of which must be at least 6 inches below the level of the soil; this is to guard against a summer drought. Cover the seeds only one inch, after which the furrow is still five inches deep. When the plants are 2 or 3 inches high, thin out to 2 inches apart and fill in another inch or so of soil around the plants, always leaving a portion of the plant above the surface; do this at intervals until the furrow is nearly full; it should always remain a little hollow to hold the rains, and to allow water to be applied by the bucketful when necessary.

During dry weather they should be watered thoroughly and frequently and given an application of liquid manure once a week. A mulch of hay or rakings from the lawn will be found beneficial during hot weather. The flowers should be picked as often as possible, and all withered blooms should be removed, to prevent the plants from running to seed, which would stop them from blooming.

New Early Flowering Spencers

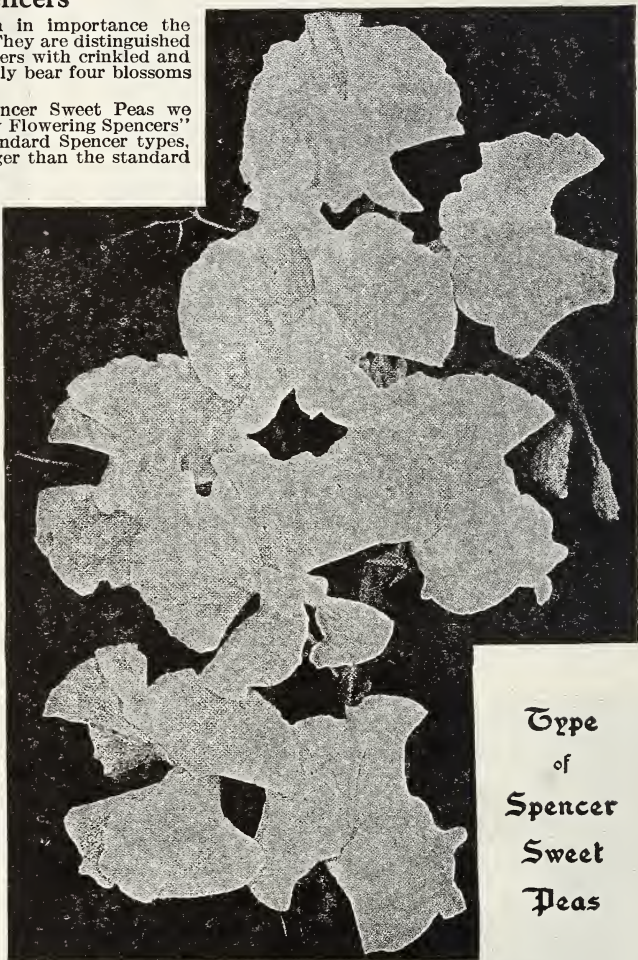
NOTHING within recent years can approach in importance the introduction of the "Spencer" Sweet Peas. They are distinguished from the standard sorts by the enormous flowers with crinkled and wavy petals, and also from the fact that they usually bear four blossoms on a long stout stem.

In presenting the following varieties of Spencer Sweet Peas we wish to emphasize the fact that these are the "Early Flowering Spencers" and are separate and distinct from the late or standard Spencer types, as they continue blooming two to three weeks longer than the standard Spencer varieties.

- 471—**Early Meadow Lark.** Flowers are cream colored, duplexed, well waved and borne in fours and threes very floriferously on strong vines. . . . $\frac{1}{2}$ oz., 60c; oz., \$1.00; 10c pkt.
- 472—**Early Warbler.** The flowers are a rich mauve purple color; large and beautiful in form. . . . $\frac{1}{2}$ oz., 60c; oz., \$1.00; 10c pkt.
- 473—**Early Liberty.** A rich, deep, sunproof crimson. The flowers are large, well waved and borne in fours and threes. The vines are vigorous. $\frac{1}{2}$ oz., 60c; oz., \$1.00; 10c pkt.
- 474—**Early Songster.** The vines are floriferous and the Lavender colored flowers very large and nicely waved. $\frac{1}{2}$ oz., 60c; oz., \$1.00; 10c pkt.
- 475—**Early Blanche Ferry.** The standard is bright rose, the wings being pinkish or bluish-white. Vines are strong and vigorous, bearing large, well waved flowers in threes and fours. $\frac{1}{2}$ oz., 40c; oz., 75c; 10c pkt.
- 476—**Heather Bell.** The color is a rich, but pleasing mauve, but after standing in water the color becomes a beautiful mauve lavender. $\frac{1}{2}$ oz., 40c; oz., 75c; 10c pkt.
- 477—**Morning Star.** The color is a deep orange scarlet or flame color in standard with rich orange-pink wings. $\frac{1}{2}$ oz., 40c; oz., 75c; 10c pkt.
- 478—**Snow Flake.** This is the best Early Flowering White Seeded Spencer. The blossoms are very large and of the best waved Spencer form. . . . $\frac{1}{2}$ oz., 40c; oz., 75c; 10c pkt.
- 479—**Song Bird.** Standard richly flushed with a beautiful distinct shade of pink on a white ground, wings soft light pink. $\frac{1}{2}$ oz., 40c; oz., 75c; 10c pkt.
- 480—**Yarrowa.** The color on opening is rose, changing as the flower develops to a light pink standard, tinted buff, blush wings. $\frac{1}{2}$ oz., 40c; oz., 75c; 10c pkt.

New Spencers

- 481—**Blue Picotee.** Large, bold white flowers, with blue edge, nicely waved, and borne in threes and fours on long stems. $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.
- 482—**Dobbies Cream.** Deep cream or primrose colored, nicely waved, with an abundance of four-bloom Sprays. $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.
- 483—**Dobbies Sunproof Crimson.** This beautiful crimson flowering variety does not scorch or burn under intense sunshine. Flowers are freely borne on long stems in threes and fours. . . . $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.
- 484—**Fiery Cross.** Color a scorching fire-red, or scarlet. It does not scorch or burn and the beautifully waved and fluted flowers are borne freely in threes and fours, on long stems. . . . $\frac{1}{2}$ oz., 40c; oz., 75c; 10c pkt.
- 485—**Hercules.** A magnificent soft rose-pink. The broad and beautifully waved standards frequently measure two and one-half inches in diameter. $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.
- 486—**Hilary Christie.** Flowers salmon orange, edged with fiery orange scarlet, wings rosy salmon. $\frac{1}{2}$ oz., 40c; oz., 75c; 10c pkt.
- 487—**Jean Ireland.** Flowers creamy buff, standards margined carmine rose. $\frac{1}{2}$ oz., 40c; oz., 75c; 10c pkt.



Type
of
Spencer
Sweet
Peas

488—**King Edward Spencer.** The large flowers are waved and crinkled; standard and wings deep rich carmine scarlet. . . . $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.

489—**King White.** The grandest of all White Sweet Peas and of the most up-to-date Spencer form. It is the largest of White Spencers and the buds are of unusual size before opening. The stems are long and stout and bear practically always four blossoms. $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.

490—**Margaret Atlee.** The flowers are a rich glowing pink on cream ground, suffused with salmon in the standard, while the wings are pinkish-rose and salmon. The flowers are exquisitely waved, and freely produced in "fours" on long stout stems. $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.

(Sweet Peas continued on next page.)

All 10c Packets of Flower Seeds are 6 Packets for 25c. All 10c Packets are 3 Packets for 25c.

McCULLOUGH'S SELECT SWEET PEAS

NEW SPENCERS—Continued

- 491—**Margaret Madison.** The flowers are azure blue, slightly tinted with mauve, of good size, both standard and wings being delightfully waved and frilled.
 $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.
- 492—**Miriam Beaver.** Light apricot and buff.
 $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.
- 493—**Mrs. Cuthbertson.** The standard is a clear, rose-pink in color, wings white, slightly flushed light rose.
 $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.
- 494—**R. F. Felton.** The color is a soft, pleasing shade of lavender suffused rose; wings French gray. Flowers large and waved. . . . $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.
- 495—**Rosabelle.** A fine large rose-colored flower, and a strong grower. . . . $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.
- 496—**Royal Purple.** A rich royal purple, a distinct color and large size. . . . $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.
- 497—**The President.** Flowers are scarlet, of largest size, carried on strong, stiff stems, usually in fours, always beautifully waved.
 $\frac{1}{2}$ oz., 20c; oz., 35c; 10c pkt.

498—**McCullough's Special Mixture of Spencer Varieties** This mixture is made up by ourselves from the cream of this class in all possible color variations, and we are confident many surprises will result, as we have included in this not only the above sorts, but many others which are new and striking in this class.
 $\frac{1}{2}$ oz., 15c; oz., 30c; $\frac{1}{4}$ lb., \$1.00; 10c pkt.

McCULLOUGH'S SPECIAL COLLECTION OF "SPENCER" SWEET PEAS

One (regular size) packet of each of the
Seventeen Spencer Varieties
for \$1.10 Postpaid,
or 6 packets for 45c; 12 packets for 80c
Customer's Selection, Postpaid.

Grandiflora Varieties

Are considered easier to grow than the Spencers.
The varieties listed below are the cream of all known sorts. All inferior varieties have been discarded.
**McCULLOUGH'S SELECTED LIST INCLUDES THE
BEST VARIETIES IN ALL COLORS**

- Oz., 15c; $\frac{1}{4}$ lb., 40c; 5c pkt.
- 499—**Black Knight.** Pure maroon, self-colored. Large size.
- 500—**Blanche Ferry.** Rose pink standard, white wings.
- 501—**Dorothy Eckford.** The finest pure white. The plant is short-jointed, and grows an enormous mass of bloom.
- 502—**Earliest of All.** Rose pink standard, with white wings.
- 503—**Flora Norton.** Pure bright self-blue; quite distinct.
- 504—**Gladys Unwin.** Bright light pink, a little deeper at the edges.
- 505—**King Edward VII.** A lovely, intense, bright crimson, giant flowering variety with strong stems and growth; does not burn in the sun.
- 506—**Lady Grisel Hamilton.** Beautiful pale lavender; in form it is one of the most advanced giant flowering type.
- 507—**Lord Nelson.** Standard, dark navy blue; wings shaded purple.
- 508—**Miss Wilmott.** Standard, orange pink; wings rose, tinted orange.
- 509—**Mrs. Geo. Higginson, Jr.** A clear, delicate light blue.
- 510—**Nora Unwin.** Giant white flowering variety.
- 511—**Prima Donna.** Bright blush pink; large size and fine form.

McCULLOUGH'S SPECIAL COLLECTIONS

Thirteen Best Grandiflora or Large Flowering
Varieties for only 50c—Postpaid.
- (One regular Size packet of each variety
listed above)
or 6 packets for 25c; customer's selection,
postpaid.

McCullough's "PREMIER" Mixed Sweet Peas

THE FINEST AND MOST COMPLETE MIXTURE EVER OFFERED

- 512—This mixture contains all the best-named large-flowering varieties and novelties and is undoubtedly a truly superb mixture blended by us with extraordinary care from named varieties of the most approved large-flowering type including recent American and European varieties, as well as a great many Spencer and Unwin sorts and other hybrids insuring a gorgeous color effect.
 Oz., 10c; $\frac{1}{4}$ lb., 35c; per lb., \$1.25; 5c pkt.
- 513—**Fine Mixed.** A very good mixture of over 30 large flowering varieties.
 Oz., 10c; $\frac{1}{4}$ lb., 25c; per lb., 80c; 5c pkt.

(See also McCullough's "Premier" Mixture.)



THUNBERGIA (Black-Eyed Susan)

- 514—Beautiful, rapid-growing annual climbers, preferring a warm, sunny situation; used extensively in hanging baskets, vases, low fences, etc.; very pretty flowers in buff, white, orange, etc.; with dark eyes; mixed colors.
Half-hardy Annual. 4 feet. . . . $\frac{1}{4}$ oz., 25c; 5c pkt.

TORENIA

- 515—**Fournieri.** A very fine annual; a splendid plant for vases, hanging-baskets, borders, etc.; covered the entire season with a mass of bloom. Sky-blue, with three spots of dark-blue, bright yellow center. *Half-hardy Annual.* 10c pkt.

VIOLET (Viola Odorata)

A great favorite, suitable for groups, or borders, and much in demand on account of its profusion of bloom and delightful fragrance. Violet seeds germinate very slowly.
Hardy Perennial.

- 516—**Finest Mixed.** 10c pkt.

VIOLAS, or TUFTED PANSIES. (See Pansies.)

VINCA (Madagascar Periwinkle, or Old Maid)

Ornamental, free-blooming plants and one of the most satisfactory flowering bedding plants we have. It is best to start the seed early indoors or in a hotbed, but they begin blooming in August from seed sown out of doors in May, or as soon as the ground is warm, continuing until frost; or they may be potted and kept in bloom through the winter; a fine cut flower, every bud opening when placed in water; 2 feet. *Tender Annual.* (See cut.)

- 517—**Rosea.** Rose, dark eye. 10c pkt.
 518—**Alba Rosea.** White, crimson eye. 10c pkt.
 519—**Alba Pura.** Pure white. 10c pkt.
 520—**Mixed.** $\frac{1}{4}$ oz., 25c; 5c pkt.

VERBENAS. (See next page.)

VERBENAS

To have the best results, seeds should be started early in the house and the young plants bedded out by the first of June, and they will make a lavish and showy display of flowers until frost. *Half-hardy Annual.*

- 521—**Mammoth Defiance.** Brilliant scarlet, fine for bedding. 10c pkt.
 522—**Mammoth Candidissima.** Large trusses of pure white flowers. 10c pkt.
 523—**Mammoth Blue.** Bright blue, in various shades. 10c pkt.
 524—**Mammoth Pink.** Bright shades of pink; fine. 10c pkt.
 525—**Gigantea Lucifer.** Flowers intense brilliant scarlet with no eye. 10c pkt.
- † ————— †
 526—**McCullough's Mammoth Mixed Verbenas** Our mixture contains every desirable color and shade. They bloom most profusely and for enormous flowers of rich and superb colors are unsurpassed. 1/8 oz., 25c; 1/4 oz., 40c; 10c pkt.
 527—**Fine Mixed.** A very satisfactory assortment, containing many fine colors and shades. 1/8 oz., 15c; 1/4 oz., 25c; 5c pkt.

Various Verbenas

- 528—**Lemon Verbena.** (Aloysia Citriodora.) Every garden should have a few plants of this fragrant favorite. Its pale green delightfully scented foliage goes well with any flower. *Half-hardy Perennial.* 10c pkt.

WALLFLOWER (Goldlack)

WELL-KNOWN, deliciously fragrant, half-hardy annuals and perennials, blooming early in the Spring, with spikes of beautiful flowers. They should be protected in a cold frame in the Winter and planted out in April.

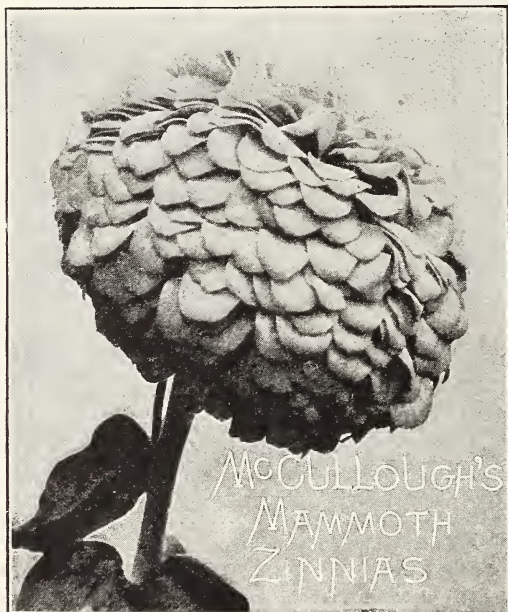
529—**Extra Early Market.** A mixture of beautiful single annual varieties which flower through the Summer from seeds sown in Spring. *Half-hardy Annual.* 1/4 oz., 25c; 5c pkt.

- 530—**Single Mixed.** *Half-hardy Perennial.* All colors. 5c pkt.
 531—**Double Finest Mixed.** *Half-hardy Perennial.* 10c pkt.

WILD CUCUMBER

(*Echinocystis Lobata*)

THIS is one of the quickest growing climbers on our list. Should be sown late in the Fall or very early in the Spring. It is thickly dotted over with pretty, white fragrant flowers followed by an abundance of ornamental and prickly seed pods. For a trellis or pillar no annual vine is more chaste, and it will quickly cover an old tree or an unsightly building. *Hardy Annual.* 1/2 oz., 10c; oz., 15c; 5c pkt.



“WILD GARDEN” FLOWER SEED

EACH package contains about 100 varieties of hardy flower seeds mixed together, and wherever planted will insure something new almost every day. Is suitable for sowing in shrubbery, under trees, and in beds on which no care will be bestowed, or even for sowing in exposed situations, where wildness is preferred to order and precision.

To those who can not bestow the necessary care required in a neatly laid out flower garden, the “Wild Garden” presents a substitute, which, for its unusual and varied effect, for cheapness and small amount of labor necessary for its construction has no rival.

- 533—**Dwarf Sorts.** Growing from 12 to 18 inches high. Oz., 25c; 5c pkt.
 534—**Climbing and Trailing Sorts.** Fine for hiding fences, brush and rubbish heaps. Oz., 25c; 5c pkt.

XERANTHEMUM

(*Everlasting, or Immortelle*)

- 535—**Double Mixed.** Bright and pretty “Everlasting” with silvery foliage and silky flowers in pink, white and purple. *Half-hardy Annual.* 1/4 oz., 15c; 5c pkt.

ZINNIAS (Youth and Old Age)

THESE attractive and decorative hardy annuals are most desirable plants for mixed borders or bedding purposes, and are remarkable for the profusion and duration of their flowers, which are extremely useful for bouquets. The double Zinnias are exceedingly handsome, the flowers being notable for their large size, fine form, brilliancy and diversity of color. The seed can be sown early in the hotbed or light window and transplanted, or sown later in the open ground. They come into flower early in the Summer and keep on blooming until hard frost. *Half-hardy Annual.*

Double Giant Picotee

- 536—A new and distinct class originated from flesh color with each petal distinctly tipped with dark chocolate colors and producing the following colors, all tipped with various shades of dark, giving the flowers a very attractive and pleasing appearance, resembling Picotee Carnations, Orange, Flesh, Lemon, Pink and Cerise. 10c pkt.

McCullough's Superb Mammoth Zinnias

This is the finest strain obtainable. The flowers are of enormous size, thickly set with velvety petals. The plants are healthy, robust, vigorous growers, branching freely, and make excellent material for groups or cutting. McCullough's Superb Mammoth will be found very superior to ordinary Zinnias. New colors have been added, depth and size given to the blooms and a rich velvety lustre to the petals.

- 537—**Mammoth White.** 540—**Mammoth Crimson.**
 538—**Mammoth Yellow.** 541—**Mammoth Scarlet.**
 539—**Mammoth Flesh Color.** 542—**Mammoth Violet.**

- Each of the above. 3 pkts., 25c; 10c pkt.
 543—**Collection.** One packet of each of the above 6 varieties. 50c.

† ————— †
 544—**McCullough's Superb Mammoth Mixed** Contains all the colors listed above together with many new shades. Be sure and try this wonderful strain of this grand old favorite flower. 1/4 oz., 30c; 10c pkt.

- 545—**Elegans Double, Finest Mixed.** Semi-dwarf varieties. Many colors. . . . 1/4 oz., 15c; oz., 50c; 5c pkt.
 546—**Curled and Crested.** A beautiful strain, the petals being twisted, curled and crested into the most fantastic and graceful forms. The colors comprise all the beautiful shades characteristic of the Zinnia. 1/4 oz., 30c; 10c pkt.

- 547—**Jacqueminot.** A double deep blood red variety growing about two and one-half feet tall. Flowers are perfectly double, of fine form and plant is very free blooming. 1/4 oz., 30c; 10c pkt.

- 548—**Black Knight.** (Pompon.) This variety produces its striking dark flowers on handsome little bushes of compact form. As a border plant it is highly effective as it blooms all summer until late in the fall. 1/4 oz., 30c; 10c pkt.

- 549—**Red Riding Hood.** Of compact form and covered the entire season with little button-like, intense scarlet flowers not over an inch across; as a border plant it is highly effective. 1/4 oz., 30c; 10c pkt.

McCullough's Grass Seeds

We specialize in Grass Seed of all kinds and for every Purpose

FOR many years Grass Seeds have been one of our most important specialties, and our improved and perfected facilities for handling same (at a minimum cost), either in small or car lots, enables us to offer our customers the best possible service, both as to quality and promptness in executing orders.

We have four or five different grades of Grass Seeds, especially of the kinds most in demand, such as Clovers, Timothy, Blue Grass, Red Top, Orchard Grass, etc.

We will be pleased to quote lowest market prices on application.

For best results, we advise the use of our highest grades "XXX" and "Buckeye."

We are the largest buyers in this section of high grade Seeds and will always pay the highest market price. Submit samples and name quantity to offer.

Our prices include delivery to freight or express depots here, purchaser paying transportation charges.

We make no charge for burlap bags for Blue Grass, Red Top in Chaff, Orchard Grass, Perennial Rye and other light Grass Seeds.

Seamless bags for Clover, Timothy, Fancy Red Top and other heavy Seeds and Seed Grain are 65c each, extra.

The number of pounds to the bushel, in brackets, is the old way of offering Grasses, and is mentioned merely for reference.



Kentucky Blue Grass

We expect to adhere closely to prices quoted in this list, but owing to market fluctuations, it is impossible to guarantee prices on the day of receipt.

All orders will be filled at lowest market price on the day of receipt.
Postage Must Be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

KENTUCKY BLUE GRASS

(*Poa Pratensis*)

ALSO known as June Grass, Green Grass, etc. This is rated as the finest permanent pasture Grass. Especially suited to meadows and rich lands. It is the Grass of the famous and fertile lime-stone soils of Kentucky, and is no less a favorite all through the Northern States. A perfect lawn Grass. Sow 30 to 40 lbs. per acre for lawn; 2 bushels (28 lbs.) to the acre for pasture (14 lbs. per bushel.)

Kentucky Blue Grass Seed, Fancy Cleaned.

Per lb., 30c; 7 lbs., \$2.00; per bushel of 14 lbs., \$3.75.

NOTE:—We wish to call attention to the fact that Cincinnati is the leading market in the world for Kentucky Blue Grass Seed. We export many carloads annually; the words "McCullough" and "Kentucky Blue Grass" being very familiar to the principal Seed dealers of the world.

Prices Will Be Quoted on Other Grades on Application.

ORCHARD GRASS

(*Dactylis Glomerata*)

ROUGH Cocksfoot. Perennial. Height, 3 feet. It blossoms about the same time as Red Clover, making it, on that account a desirable mixture with that plant. It is exceedingly palatable to stock of all kinds, and its powers of enduring the cropping of cattle commend it as one of the very best pasture Grasses. Sow 25 to 35 lbs. to the acre. (14 lbs. per bushel.) Per lb., 35c; 7 lbs., \$2.20; per bu. of 14 lbs., \$4.00. Lower qualities at their values.

RED TOP GRASS

(*Agrostis Palustris* or *Alba*)

HERD'S Grass. Quick Grass. Perennial; height 1 to 2 feet. Valuable either for lawn mixtures, mixing in hay, or permanent pasture Grasses; succeeds almost everywhere, but reaches its highest state of perfection in a moist, rich soil, in which it attains a height of 2 to 2½ feet. Sow, if alone, 40 to 50 lbs. per acre. (14 lbs. per bushel.)

Fancy Red Top Pure Seed.

Weight about 30 lbs. per bushel. Sow 10 to 12 lbs. per acre. . . Per lb., 25c; 10 lbs., \$2.25; per 100 lbs., \$20.00.

Choice Red Top Seed in Chaff.

Per lb., 20c; 7 lbs., \$1.25; per bu. of 14 lbs., \$2.25.

Perennial or English Rye Grass

(*Lolium Perenne*)

IMPORTED English Blue Grass. Height, 15 to 24 inches. Considered invaluable for permanent pastures. It produces an abundance of remarkably fine foliage, tillers out close to the ground, and soon forms a compact sward. After being cut it grows up in a very short time, and remains bright and green throughout the season, consequently is well adapted for lawn mixtures. Valuable for shady places. Also a good variety for hay if cut when in blossom, as it is then most nutritious. Sow, if alone, 50 to 60 lbs. per acre. (24 lbs. per bushel.) Per lb., 25c; 12 lbs., \$2.00; per bu. of 24 lbs., \$3.50.

For larger quantities—write for Special Prices.

Pulverized Sheep Manure and Pure Bone Meal are the Best Fertilizers for Grass. See Fertilizers.



Orchard Grass

Pacey's Improved Short Rye Grass

SIMILAR to Perennial Rye

Grass, but does not grow so tall, consequently is superior for lawn purposes. (24 lbs. per bushel.) Sow, if alone, 50 to 60 lbs. per acre.

Per lb., 30c; 12 lbs., \$2.25; per bu. of 24 lbs., \$4.00.

Meadow Fescue (*Festuca Pratensis*)

(Erroneously called English Blue Grass)

HIGHLY valuable for permanent grass land. Does not, however, attain its full productive power till the second or third year. Relished by live stock, both in hay and permanent pasture, and is one of the most desirable grasses for general culture. Sow 30 to 40 lbs. to the acre. (24 lbs. per bushel.) This is the true Evergreen Grass of the South.

Per lb., 30c; 10 lbs., \$2.75; per 100 lbs., \$25.00.

Awnless Brome Grass (*Bromus Inermis*)

A HARDY perennial, standing extremes of heat, cold and drought. In the South it remains green all winter. It will grow on all kinds of soil. The seed should be sown as early in the Spring as the ground can be worked (10 lbs. per bushel.) Sow 25 to 30 lbs. to the acre.

Per lb., 25c; 10 lbs., \$2.00; per 100 lbs., \$18.00.

Bermuda Grass (*Cynodon Dactylon*)

A VALUABLE Grass for the South and for tropical climates; will not endure frost. Sow 10 to 15 lbs. per acre. Per lb., 50c.

Canadian Blue Grass (*Poa Compressa*)

A ALSO called Flat-stemmed Poa, Flat-Stalked Meadow Grass. Grows a foot or more high. Recommended for horses, cows and sheep. Thrives well on clay. Sow 30 to 40 lbs. per acre. Per lb., 20c; 10 lbs., \$1.75.

Creeping Bent (*Agrostis Canina*)

V ALUABLE in mixture with other Grasses for lawn, etc. Suitable also for moist localities. (12 lbs. per bushel.) Sow 30 to 40 lbs. per acre. Crop failed.

Crested Dogstail (*Cynosurus Crystatus*)

A N excellent Grass for hard, dry soils; valuable for pastures and lawns, as it is very hardy, tender, nutritious and relished by all stock. (21 lbs. per bushel.) Sow, if alone, 30 to 35 lbs. per acre. Perennial. Height, 1 to 1½ feet. Per lb., 35c; 10 lbs., \$3.25.

Fine-Leaved Sheep Fescue

(*Festuca Ovina Tenifolia*)

SIMILAR to the Sheep Fescue, except that the leaves are much finer. Sow, if alone, 40 lbs. per acre. (14 lbs. per bushel.) Perennial. Height varies from 8 to 24 inches. Write for prices.

For larger quantities—write for special prices.

GRASS SEEDS—Continued

Hard Fescue (*Festuca Duriuscula*)

PERENNIAL. Height, 12 to 24 inches. Thrives well in dry situations. The herbage is decidedly tender, but the flower heads, when ripe, become hard. Sow, if alone, 30 to 35 lbs. per acre. (12 lbs. per bu.)
Per lb., 45c; 10 lbs., \$4.00.

Italian Rye Grass (*Lolium Italicum*)

BIENNIAL. Height, 18 to 30 inches. As it is not perennial, it is not adapted for permanent pastures, but for one or two years hay it is unsurpassed. Sow, if alone, 45 to 50 lbs. per acre. (18 lbs. per bushel.)
Per lb., 20c; 10 lbs., \$1.75; 100 lbs., \$15.00.

Red Fescue (*Festuca Rubra*)

CREeping-ROOTED species, forming a close and lasting turf and especially adapted for dry sandy soils. It resists extreme drought and thrives on poor soils; also valuable for shady places in lawns as well as for golf-courses. 40 lbs. to the acre. (24 lbs. per bushel.)
Per lb., 45c; 10 lbs., \$4.00.

Rhode Island Bent (*Agrostis Tenuis*)

A fine Grass, chiefly used for pastures and lawns, for which it is one of the best. (12 lbs. per bushel.) Sow 25 to 40 lbs. per acre. Write for prices.

Sweet Vernal Grass

For a mixture with pasture Grasses it is valuable on account of its vernal growth, and also for continuing to throw up root foliage until late in the autumn. Its chief merit is its fragrant odor, which the leaves emit when partially dry, thus sweetening hay. Sow 3 to 5 lbs. per acre with other Grasses.

True Perennial. (*Anthoxanthum Odoratum*.)
Per lb., \$1.00; 10 lbs., \$8.00.
Annual. (*Anthoxanthum Odoratum Puelli*.) Much smaller than the perennial. . . . Per lb., 60c; 10 lbs., \$5.50.

Sheep Fescue (*Festuca Ovina*)

Perennial. Height varies from 6 to 20 inches. Grows naturally on light, dry, sandy soils. Sheep are very fond of it. (14 lbs. per bushel.) Sow 30 to 35 lbs. per acre.
Per lb., 45c; 10 lbs., \$4.00.

Tall Meadow Oat Grass (*Avena Elatior*)

A perennial. Has broad, flat leaves, and grows about 3 feet high; has an abundance of long, fibrous roots, penetrating deeply in the soil, enabling it to withstand drought and cold. Sow 25 to 30 lbs. per acre.
Per lb., 35c; 10 lbs., \$3.00.

Timothy (*Phleum Pratense*)

Herd's Grass, Cat's-tail Grass. This Grass stands at the head for meadows. Never use less than a peck to the acre, then up to one-half bushel, as to circumstances. Market Price.

Various Leaved Fescue

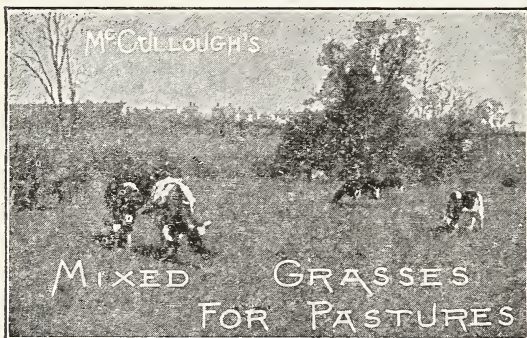
(*Festuca Heterophylla*)

A very early hardy perennial, 2 to 3 feet high, thriving best in cold, moist soils. Yields heavily and is valuable in grass mixtures for permanent meadows. It grows very well in the shade, and is highly recommended for shaded lawns and woodland parks. 40 lbs. to the acre. Crop failed.

Wood Meadow Grass (*Poa Nemoralis*)

No Grass is better adapted for pleasure grounds, particularly under trees, as it will not only grow in such places, but forms a fine sward where few other Grasses can exist. Sow 20 to 25 lbs. to the acre. Crop failed.

We specialize in Grass Seed of all kinds and for every purpose. For larger quantities—write for Special Prices.



McCULLOUGH'S MIXED GRASSES For Meadows and Pastures

AFTER years of experimenting we have aided largely in establishing the fact that a thicker and more prolonged growth is produced by a mixture of several varieties than when only one or two are used. There are always certain Grasses that are especially adapted to certain kinds of soils, and these are so carefully combined in our mixtures that in our **Mixture for Permanent Pastures**, grasses will be found that mature at intervals during the season, thereby insuring continuous pasturage, while our **Mixture for Permanent Meadow** will furnish excellent hay as well as late pasturage.

We are prepared to furnish seeds adapted to all soils and all situations, and for all purposes, composed of Grasses for light, medium or heavy soils; by light soil we mean that which is more or less of a sandy or gravelly nature; the heavy, clay and heavy loams; while the medium is an intermediate between these two. A light, wet soil, with respect to the Grasses suited to it, may be considered same as to the heavy soils, and a dry, heavy soil, more as to light soils.

Our best mixture is made entirely with our choice re-cleaned seeds, while in our second quality we use the same seeds, but without re-cleaning, and will be equal to the qualities usually to be had on the market. Our mixtures will all have a uniform weight of 16 pounds to the bushel. Quantity to be used per acre, one and one-half to two bushels, and half this quantity for renovating. In ordering, always state the soil and position on which you wish to use it.

First Quality Mixtures

For Meadows
Per lb., 25c; 8 lbs., \$1.85; bu. of 16 lbs., \$3.50.
For Permanent Pasture
Per lb., 25c; 8 lbs., \$1.85; bu. of 16 lbs., \$3.50.
For Pasture and Hay in Orchard and Other Shady Places
Per lb., 25c; 8 lbs., \$1.85; bu. of 16 lbs., \$3.50.
For Marshy Grounds
Per lb., 25c; 8 lbs., \$1.85; bu. of 16 lbs., \$3.50.
For Sandy and Rocky Grounds
Per lb., 25c; 8 lbs., \$1.85; bu. of 16 lbs., \$3.50.

Second Quality Mixtures

For Meadows
8 lbs., \$1.75; bu. of 16 lbs., \$3.25.
For Permanent Pasture
8 lbs., \$1.75; bu. of 16 lbs., \$3.25.
For Pasture and Hay in Orchard and Other Shady Places
8 lbs., \$1.75; bu. of 16 lbs., \$3.25.
For Marshy Grounds
8 lbs., \$1.75; bu. of 16 lbs., \$3.25.
For Sandy and Rocky Grounds
8 lbs., \$1.75; bu. of 16 lbs., \$3.25.

Postage must be added if wanted by mail. See Postal Rates, second page of cover.

We specialize in Grass Seed of all kinds and for every purpose.

For larger quantities—write for special prices.

McCULLOUGH'S HIGH - GRADE CLOVER SEED

Where prices are given on Field Seeds they only represent market values at time of going to press. Purchasers of large quantities should write for latest prices. Grain bags, holding two bushels, 65c each, extra. Postage must be added if wanted by mail.



View of a Field of Alfalfa Clover grown in territory contiguous to Cincinnati.

Alfalfa, or Lucerne (*Medicago Sativa*)

The Greatest Feed on Earth.

ALFAFA is being more generally grown as experience is teaching our farmers the proper methods to follow. Once established, it is such a profitable crop that every farmer can afford to take great pains to obtain a stand. It requires cutting at least twice the first season, even if not large enough to make hay. Cutting destroys any weeds that may come up in it, and gives the Alfalfa a chance. Must be sown at the rate of 20 to 25 lbs. per acre when sown broadcast. Different soils do not now seem so difficult to overcome, especially where they can be properly drained, pulverized, sweetened and inoculated.

We offer **American grown seed** raised in the Northwest and West on non-irrigated land. It is free as possible from noxious weeds. (60 lbs. per bushel.)

Per lb., 30c; 10 lbs., \$2.50.

Price on cheaper grades given on application.

Bokhara or Sweet Clover

White Flowered. (*Melilotus Alba*.) A biennial plant and bears a close resemblance to Alfalfa, but is larger and coarser. It will make an excellent growth on any lime lands and stiffest clays, or any soils so hard and barren that they will sustain no other vegetation.

The roots are very long, penetrating the soil to a depth of three to four feet, are large and being fleshy, decay more rapidly than alfalfa roots, hence their nitrogen becomes more quickly available for other crops. As they decay at the end of the second season, there is a good supply of humus.

White Flowered, Unhulled Seed.

Per lb., 25c; 10 lbs., \$2.25.

White Flowered, Hulled Seed, Scarified.

Per lb., 35c; 10 lbs., \$3.00.

Yellow Flowered. (*Melilotus Officinalis*.) Biennial. It resembles the White Sweet Clover, but blooms about three weeks earlier; produces finer stalks and does not grow as tall. It makes first-class hay and excellent pasture for cattle and sheep. It will grow on any kind of soil, and being deep rooted, remains green in the driest season. It should be sown by bee keepers in localities where Alfalfa is not grown, as it is one of the best honey plants.

Yellow Flowered, Unhulled Seed.

Per lb., 25c; 10 lbs., \$2.25.

Yellow Flowered, Hulled Seed, Scarified.

Per lb., 35c; 10 lbs., \$3.00.

Unhulled Seed of both varieties is very slow to germinate. **Hulled Seed** (60 lbs. per bushel.)

Alsike or Swedish Clover

(*Trifolium Hybridum*)

This variety is perennial and on account of its fibrous root system does not winter-kill. Will grow well on poor soil, and will do better on moist land than any other variety of Clover. It is a valuable acquisition to the forage plants of this country and is highly esteemed as pasture for bees. Sow 6 to 8 lbs. per acre. Per lb., 45c; 10 lbs., \$4.00

White or Dutch Clover

(*Trifolium Repens*)

THIS variety thrives on nearly all soils; is a low close-growing Clover and on account of its earliness and hardness should be used in mixtures for permanent pastures. Is very hardy, spreads rapidly, acts as a binder, and when mixed with other grasses for lawn purposes is very desirable. Is also excellent for bee food. Sow 6 to 8 lbs. per acre. Per lb., 70c; 10 lbs., \$6.50.

Red Clover—Medium

(*Trifolium Pratense*)

SOW 10 to 12 pounds to the acre, according to quality of seed used and condition of the soil. In ordering, always state quality desired, otherwise will send the best. Market price.

Japan Clover (*Lespedeza Striata*)

THIS Clover is especially adapted for the South because it occupies the same position in pasture mixtures for the South that White Clover does in the North. Will thrive on poor land, and as it grows thickly soon furnishes abundant pasture. Good stands have been secured by simply sowing the seed broadcast during March, April or May at the rate of 10 to 12 lbs. per acre. This Clover is a half-hardy annual without any objectionable root system. Sow 15 to 20 lbs. per acre. (25 lbs. per bushel.)

Per lb., 45c; 10 lbs., \$4.00.

Red Clover—Sapling or Mammoth

(*Trifolium Pratense Perenne*)

Also called **English Clover**, **Cow Grass**, **Perennial Red Clover**. Sow 10 to 12 lbs. per acre. Market price.

Crimson or Scarlet Clover

(*Trifolium Incarnatum*)

A **Crimson, Scarlet or Carnation Clover** FIELD of this Clover in full bloom is a grand sight. This Clover grows about two feet high, makes good hay and is excellent for feeding green, the yield being immense, and after cutting it at once commences to grow again, and continues until freezing weather, but being an annual, dies after maturing its seed. Should be sown in August to October, also early Spring. 12 to 15 lbs. per acre. Per lb., 30c; 10 lbs., \$2.50.

For larger quantities—write for special prices.

For best results, we advise the use of our highest grades, "XXXX" and "Buckeye."

NOTE:—We have installed scarifying machinery, and our Hulled Sweet Clover is all scarified, which increases the germination 40 to 50 per cent.

Farm, Field, Forage and Silo Seeds

We give special attention to the quality of our **FARM SEEDS** and can furnish best quality of cleaned stocks. This fact should be borne in mind when making comparisons of prices.

Trade Marks registered,
McCullough's Seeds, XXXX, Buckeye,
Suburban Lawn Grass,
Central Park Lawn Grass.

The prices quoted are subject to market fluctuations.

When customers are in need of large quantities, we will be pleased to submit samples and quote, on application, the lowest prices that the market will justify at the time. Please specify quantities when writing for prices.

Grain Bags, holding two bushels, 65c each, extra.

Postage Must be Added if Wanted by Mail. See Postal Rates, second page of Cover.

Tennessee, or Southern Golden Millet

FAR superior to Western grown. Will grow in any climate or soil, and make a large yield of most nutritious feed. Sow not less than 50 pounds per acre, at any time between May 1st and June 15th. Cover with a single stroke of a light harrow, or roll without harrowing, or it may be sown with a wheat drill, barely covering the seed. Cut the crop while in bloom, before the seed hardens. We have secured a full supply of Tennessee, or Southern Golden Millet (cultivated seed), which we know will give the best satisfaction. Sow one bushel per acre, (50 lbs. per bushel). Write for Special Quotations.

Northern or Western Golden Millet

Does not yield so much hay nor so good hay as the Southern Golden Seed. Sow about a bushel to the acre. (50 lbs. per bushel.)

Write for Special Quotations.

Hungarian Millet (Grass)

A valuable forage plant of the Millet family, but not so coarse. Sown and cultivated same as Millet. Quite a favorite with stockmen. It is of fine growth, and makes an excellent hay. Sow 1 bushel per acre. Very scarce; write for prices. (50 lbs. per bushel.)

Hog Millet

Known also as Broom Corn Millet. The name Hog Millet has been applied to emphasize the use to which it is now being put as a valuable food for hogs; also good food for birds and poultry. Sow one bushel per acre. (50 lbs. per bushel.) Per pk., 85c.

Pearl Millet, or "Pencillaria"

When sown broadcast or drilled in rows, 12 to 18 inches apart, 8 to 10 pounds per acre should be used.

Per lb., 25c; 10 lbs., \$2.00.

Japanese Barnyard Millet

SOMETIMES called Billion Dollar Grass. It has proven an enormous yielder in all sections of the United States, producing hay and fodder of most excellent quality and growing on any soil. It grows to a height of 6 to 8 feet and produces from 12 to 30 tons per acre. Cattle and horses eat it greedily and fatten rapidly. It is a remarkable stooler and should not be sown very thickly—15 pounds per acre broadcast being sufficient. In drills 3 pounds per acre. (35 lbs. per bushel.)

Per lb., 15c; 10 lbs., 75c; 100 lbs., \$6.00.

Kafir-Corn

A Great Fodder Crop. The Finest Grain for Poultry and Pigeons.

White Kafir-Corn. The stalks keep green, making excellent fodder. The seed heads form at the top of each stalk, and as soon as these show the grain well, the joints next below the top send up shoots, which yield the second seed heads. For the grain sow in rows 3 feet apart; 5 lbs. of seed to the acre. For fodder sow 5 to 25 lbs., either broadcast or in drills. (50 lbs. per bushel.) Per lb., 10c; 10 lbs., 65c.



Tennessee, or Southern
Golden Millet

Feterita

An Extra-Early Strain of White Kafir Corn. A New Nonsaccharine Cane.

IT IS twenty to thirty days earlier than Kafir Corn and more productive. It is one of the surest croppers and one of the best feeds for poultry and pigeons. (50 lbs. per bushel.) Per lb., 10c; 10 lbs., 80c.

Broom Corn

Improved Evergreen. The best variety for general cultivation on account of the color and quality of brush. Ripens early; grows about 8 to 10 feet high; brush of good length, fine and straight, and always of green appearance when ripe. Plant 30 to 35 lbs. to the acre.

Per lb., 20c; 10 lbs., \$1.25.

Barley

BARLEY needs a rich land, more sandy and lighter than that adapted to Wheat, and can be grown farther North than any other grain. It should be cut before fully ripe (unless intended for seed), as it is then of better quality and less liable to shell. Sow 1 1/2 to 2 bushels if drilled; 2 to 2 1/2 bushels broadcast. (48 lbs. per bushel.)

Spring Barley. Market price.

Beardless Barley. Market price.

Buckwheat

IN this locality it is sown anywhere from June 1st to July 15th; one bushel of 50 lbs., broadcast, to the acre. It makes a very fine quality of flour; is largely used for poultry food and frequently yields as much as 80 bushels to the acre. (50 lbs. per bushel.)

Japanese. This superior variety is earlier, more prolific and yields double the weight per acre of other sorts. The grains are nearly twice as large as those of Silver Hull, and of fine color.

Pk. 75c; per bushel of 50 lbs., \$2.50.

Silver Hull. The grain is of light gray color.

Pk., 80c; per bushel of 50 lbs., \$2.75.

Sorghum or Sugar Cane

Plant in drills 3/4 to 1 bushel; broadcast, 1 to 1 1/2 bushels to the acre. Sorghum is being used extensively as a green food for cattle, horses and mules. (50 lbs. per bushel.)

Early Orange Cane. A strong grower; much more juicy than any other variety. The stalk is heavier and a little later than the Amber. Per lb., 15c; 10 lbs., \$1.00.

Early Amber Cane. This popular and well known variety is the earliest and makes the finest quality of both sugar and syrup. Per lb., 15c; 10 lbs., \$1.00.

Sudan Grass (Andropogon Sorghum)

A SWEET heavy-yielding grass, foliage and seed resembles Johnson Grass, but is an annual. Root system is like Oats. Seeds from 300 to 400 pounds per acre from Florida to Montana. Absolutely drought-proof. Grows 6 to 10 feet high. Stems erect, unbranched, very leafy; and three to four cuttings, 4 1/2 to 6 1/4 tons per acre of dry, sweet hay that cattle prefer to Cow Pea hay. Ripe for hay cutting in 70 days, and cut every 30 days following. Plant from March to July in 18 to 30 inch rows, 5 pounds to acre, or broadcast 10 pounds. Each seed stools wonderfully—20 to 40 stools per seed.

NOTE:—On account of the similarity of this seed to Johnson Grass Seed, we have gone to a great deal of trouble and expense to procure seed that we have every reason to believe is free from this seed.

There are all kinds of Sudan Grass Seed on the market, and on this account you should be doubly careful. Buy your seed from a reputable house at a reasonable price.

Per lb., 35c; 10 lbs., \$3.00.

Sunflower (Mammoth Russian)

IMMENSE yielder—125 bushels of seed to the acre has been grown at less expense than corn. Very highly recommended for poultry. Best egg producing food known. Good feed for horses as well. May be grown to great advantage in waste ground, from early Spring to the latter part of July. Plant 10 to 12 lbs. per acre.

Per lb., 15c; 10 lbs., \$1.25.

Teosinte (Reane Luxurians)

Stalk can be cut several times during the season. Should not be planted until the soil is perfectly warm in Spring. Requires about 4 lbs. of seed per acre.

Per lb., 70c; 5 lbs., \$3.25.

Prices Subject to Market Changes.

In Ordering Farm Seeds Always Allow 65 cents for each Two-Bushel Seamless Bag. For larger quantities, write for Special Prices.

Write for Special on Farm Seeds.

FARM, FIELD, FORAGE AND SILO SEEDS--Continued

SOY, OR SOJA BEANS

The Great Land Renovator

The King of Summer Forage Crops

THIS very valuable farm plant enriches the ground in which it is planted by the free nitrogen gathered from the air and which is deposited in the ground by the roots, leaving it in ideal condition and rich in nitrogen for the next crop. Fodder is relished in either green or dry form by cattle and dairy cows.

The Soy or Soja Bean, is an annual. Its character or growth resembles ordinary field beans. During the past few years the United States Department of Agriculture and State Experiment Stations have tested many varieties of Soy Beans and pronounce it a forage and grain plant of great promise. They are grown chiefly for hay, grain, silage, soiling, pasture and as a soil renovator; are not hard to grow, not exacting to the character of soil and a valuable plant for forage; some claim they have a higher protein content than Alfalfa. These beans should not be seeded until all danger of frost is past and the ground is thoroughly warmed, and usually sown from the middle of May until July.

It is best to plant beans only about one or two inches deep, or as shallow as moisture supply will permit, for the formation of a crust may prevent the beans from growing. If grown for seed or silage, in drills 24 to 30 inches apart, sow about 3 pecks per acre. If grown for hay or soiling, the foliage will be of a finer quality and be consumed with less waste; drilled solid, or sown broadcast, using from 1½ to 2 bushels per acre. For hay, cut when pod begins to form. For grain, cut just before beans are ripe, or, when pods are beginning to take on a brownish or black appearance. For Silage, cut as near maturing as possible without dropping the leaves.

Descriptions of the **SOY or SOJA BEANS** that we can furnish

Will Quote Prices on Application

Southern Grown

Early Black. Some times known as Tar Heel or Ebony Black. Mature considerably earlier than Mammoth Yellow and considered superior. Also produces a fine crop of Hay, and believe will mature a crop of Beans in this section if sown early.

Early Brown. This is a good variety, producing a large crop of hay, but not quite as early as the Early Black.

Mammoth Yellow. One of the oldest and best known varieties, producing a large hay crop and a fine fertilizer, giving good satisfaction at all times.

Northern Grown

Ito San. Early Yellow seeded variety; being 10 to 15 days earlier than the Medium Green; will mature seed in this section, and a good hay producer.

Mongol. Early variety and of yellowish cast and produces both seed and hay in this section; recommended very highly.

Medium Brown. A few days later than the Medium Green, grows a little taller with seeds of somewhat larger size and does not shatter as badly. Will give a good yield of seed, also first class hay crop.

Medium Early Green. The earliest and one of the oldest and best known sorts, which has become quite a favorite North of the Ohio River both for seed and forage crop. Grows 24 to 38 inches in height; stems medium stout—¼ to ¾ inch in diameter. The leaves are very dark green, full and large in center, while the edges are freely curled. Pods of medium size, 1 to 1½ inches long. Color of seeds, bright green. The branches are usually far enough above the ground to permit easy harvesting.

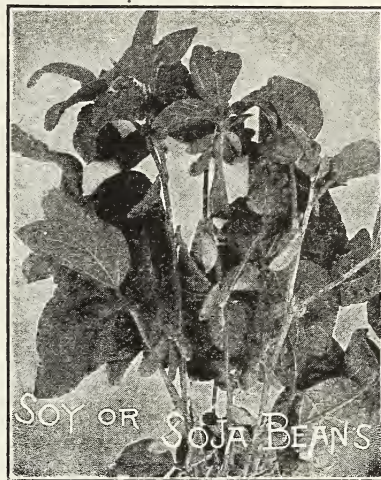
VETCHES OR TARES

THIS has been used in Europe for many years as a stock food and green manuring or cover crop. It fertilizes the ground without further trouble or cost, on account of the free nitrogen it gathers from the air. It produces a peculiar vine plant with very narrow foliage and elongated flowers of pinkish white in clusters. The height when supported is frequently 4 feet.

Sand, Hairy, or Winter Vetch. (*Vicia Villosa*.) Our stock of this is the true type, which will absolutely live throughout the winter, and buyers should beware when buying that they procure the right article, which is a small, round, black seed; this is far superior to Crimson Clover, as it never winter-kills. Sown from August 1st to October 1st, broadcast, 1 to 1½ bushels per acre, to which we suggest adding half a bushel of winter rye or wheat. In the Spring it can be plowed in as green manure, or when in flower cut for hay. All stock relish it keenly. (60 lbs. per bushel.)

Spring Vetch. (*Vicia Sativa*.) The seed of this is larger and of a brownish gray color. It is not hardy and must, therefore, be sown in the Spring during May or June, 1 to 2 bushels per acre if broadcast and 1 bushel if in drills, with either Spring wheat, Spring Rye or Oats for support. It possesses very much the same desirable features as the Winter Vetch. (60 lbs. per bushel.)

Per lb., 25c; 10 lbs., \$2.25.



COW PEAS

The Great Soil Improver—Makes Poor Land Rich—Makes Good Land More Productive.

COW-PEAS make one of the largest yielding and most nutritious forage crops grown. There is also no surer or cheaper means of improving and increasing the productiveness of your soils than by sowing the Cow-Peas.

There is a wide difference between Cow Peas and Canadian Peas. Bear in mind that the Southern Cow Peas belong to the Bean family, therefore, must not be sown until the ground is thoroughly warm and all danger from frost is past. The value as a fertilizing crop exceeds that of clover, for, in addition to being a larger nitrogen gatherer than the clover, they draw from the subsoil to the surface large amounts of potash and phosphoric acid, thus putting the soil in most excellent condition for following crops. The feeding value of Cow Peas is very high, being considerably above that of Red Clover. The yield of green vines per acre runs ordinarily from 5 to 15 tons.

Sow 1¼ to 1½ bushels per acre, on land thoroughly pulverized and disc or plow with a cultivator or double shovel plow. If wanted for hay, cut when peas are forming; cure as clover. If peas are for fertilizer, sow same quantity after same preparation as for hay; turn under when peas are in bloom. If farmers will first roll and disc peas they will turn under much easier and be more satisfactory. For a fertilizer, especially to be followed by wheat or corn, they are simply the best.

Will Quote Prices on Application. All orders accompanied with the money will be filled at the lowest market price, upon receipt.

Early Black. Matures quickly, best variety for the extreme northern sections of the country.

Whip-Poor-Will. An early variety, tall, upright, medium yield of vines, large yield of peas, for which they are particularly grown. Highly recommended for "hogging down."

Clay. The leading variety in the South. Large yield of vines and peas, but require longer season to mature than the former-named varieties.

New Era. Seed small, dun colored; earlier than Whip-Poor-Will, but more trailing in habit. A great favorite in many places.

Mixed Cow Peas. These are splendidly adapted for those who merely wish same for feeding purposes, and being mixed, we are able to offer them at a lower price.

SOJA BEANS and COW PEAS very scarce; will quote prices on application.

CANADA FIELD PEAS

THESE are sown with oats about April 1st at the rate of 1½ bushel of Peas and 1½ bushel of Oats to the acre either drilled or broadcast. The oats are intended as a support for the peas. They are cut just after the peas flower and fed green; sheep, hogs and cattle relish them keenly. They may be sown successively up to July if one has the available land. Peas may also be sown alone at the rate of 3 bushels per acre and furnish excellent pea hay. For plowing under as green manure, they add a vast amount of nitrogen to the soil, and succeeding crops, particularly wheat, are wonderfully benefited. The dried peas are extensively fed to pigeons, while when ground as meal is an excellent addition to the regular soft food of cows, sheep and horses. (60 lbs. per bushel.)

Per lb., 15c; 10 lbs., \$1.00; 100 lbs., \$7.50.

For larger quantities—write for Special Prices.

FARM. FIELD, FORAGE AND SILO SEEDS--Continued

SOWING RAPE

A FORAGE plant of highest value. It can be sown in April for an early crop, and for fall crop in July, August and September, and still later further South. In a few weeks from the time of sowing, sheep hogs or cattle can be turned on it. Under favorable conditions Rape is ready for pasturing sheep or cattle within six weeks from time of sowing, and on an average one acre will carry 12 to 15 sheep six weeks to two months. When on the Rape they should at all times have access to salt. Pigs and cattle are also very fond of it. Rape has a high feeding value. It is excellent for fattening sheep and swine, produces an abundant flow of milk in cows, and is the ideal pasture for weaning lambs. Its value as sheep pasture has been demonstrated in every State in the Union, and it is recommended by authorities everywhere as of superior value for hogs, furnishing the finest pasturage, or can be fed after cutting. Rape has strong-growing roots which penetrate the ground for a considerable depth. A rich, loamy soil is preferable, but it does well on sandy or stiff soils, and is excellent for sowing after a crop of wheat has been taken off, or when corn has been worked the last time. The plant is a rank grower and should have heavy manuring. Sow the seed by the end of June and the crop can be ready to feed at a season when it is most needed. It does well sown with oats. After oats are cut, the Rape grows rapidly. If the soil is rich and clean, sow broadcast; if not so clean, sow in drills and cultivate as for corn. When sown broadcast, use five to six pounds, and if in drills, two to three pounds to the acre. Per lb., 20c; 10 lbs., \$1.75.

Postage Must Be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.



SPELTZ OR EMMER

THIS grain resembles wheat but is a much larger yielder, producing frequently as high as 80 bushels of grain per acre, and that on the poorest land. The hay, if cut green is desirable for horse or cattle feed, while the straw after thrashing, is equal to the best wheat straw.

The heads are somewhat similar to two-rowed barley. For fattening cattle, poultry, horses, sheep, pigs, etc., it is claimed to be ahead of any other grains. Cultivation similar to wheat or oats. Sow at the rate of 50 to 60 lbs. per acre. Per lb., 10c; 10 lbs., 65c; bushel of 40 lbs., \$2.00.

WHITE NAVY BEANS

PLANTED in June or July, these usually make a very profitable crop to grow as shelled white beans for market. Plant in rows three feet apart, dropping two or three beans together a foot apart in the rows. Cultivate early, as they grow rapidly, but do not work them while the dew is on the foliage. (60 lbs. per bushel.) Special price on application.

HEMP SEED

We will be pleased to quote market prices upon application. Sow at rate of $\frac{3}{4}$ to 1 bushel per acre. (44 lbs. per bushel.)

FLAX SEED

Northwestern. Sow at rate of $\frac{3}{4}$ to 1 bushel per acre. Market price. (56 lbs. per bushel.)

VELVET BEANS

Velvet Beans make a larger growth of vines than any other known forage plant, far surpassing the Cow Pea in yield. They are usually planted in rows about five feet apart, at the rate of a peck to one and one-quarter pecks per acre. Grown mostly in the South. Write for prices.

CHOICE SEED OATS

Broadcast, $2\frac{1}{2}$ to 3 bushels to the acre.

We handle enormous quantities of these and trace the demand to the excellent quality we handle; they are grown especially for us in cool regions, where they grow to perfection. (32 lbs. per bushel.)

Red Rustproof. These are the standard oats of the Southern States, yielding large crops when all other sorts were destroyed by rust. It is a large, heavy, reddish-looking berry.

Winter Turf. Perfectly hardy in the Southern and Middle States. Yields on good land, from 50 to 70 bushels to the acre of fine, heavy grain, weighing from 35 to 50 pounds to the measured bushel.

White, Black and Mixed. Market price.

ROSEN RYE (Michigan Grown)

Grain unusually large and yield surpasses the old standard sorts. Price on Application.

SEED WHEAT Prices on Application.

FIELD CORN

Northern Grown Seed

OUR strains of Corn are not the common kinds usually found in abundance on the market; we pay special attention to the selecting of stocks in all lines of farm seeds. This is particularly true of Field Corn where re-selection means the limit of crops with little or no increase in cost. It is amazing to realize that where the old unselected seed is used the average crop per acre is only half, compared to the more intelligent selection of strains. Our stock is selected for size of ear and fodder, which means a considerable increase in production. (56 lbs. per bushel.)

Plant 8 to 10 quarts per acre in hills, sow $2\frac{1}{2}$ to 3 bushels broadcast for fodder.

Never use Feeding Corn for Seeding Purposes.

McCullough's Early Prolific	The most prolific white Corn. Each stalk bears two to five ears, average length of ears $8\frac{1}{2}$ inches. Stalks range in height from 9 to 12 feet. Ideal for ensilage and matures in 100 days.
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McCullough's Champion White Dent	The best White Dent Corn. Ears 10 to 12 inches long, well filled at tip and butt; will mature in any corn country and in strong land and good season will make from 100 to 125 bushels per acre.
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Boone County White Dent. Ears contain from 18 to 24 rows and are well filled from butt to tip, with deep kernels.

Peerless. (White.) Will mature in 90 days. Produces generally two large ears to the stalk.

Silver Mine. One of the best yielding White Dent Corns. 18 to 20 rows; kernels deep and cobs small.

Hickory King. The ears are rather small but as they are borne 2 to 3 on a stalk it is a fairly good yielder.

Reid's Yellow Dent. Has from 18 to 24 rows; ear medium in size and of a bright yellow color.

King of the Earliest Dent. An early yellow corn, adapted for high latitudes; will mature in 80 to 85 days.

Gold Mine. Early Yellow Dent, ripening only a few days later than King of the Earliest; ears are of good size.

Leaming Yellow. Ears of good size, cob red and small, ripens quite early—frequently in 100 days from planting. Yields from 75 to 100 bushels per acre. Adapted to rich soils.

Red Cob Ensilage. A Southern type of large, white corn, with deep red cob and strong leafy stalks.

Sugar Corn for Ensilage. There is nothing better for green feed or curing for winter than sweet corn.

SEED POP CORN

Plant Two Quarts to the Acre.

White Rice. A handsome variety, kernels long and pointed, very prolific. Per lb., 20c; 10 lbs., \$1.50.

Queen's Golden. The stalks grow 6 feet high and the large ears are produced in abundance. It pops perfectly white. Per lb., 20c; 10 lbs., \$1.50.

Postage Must Be Added if Wanted by Mail.

Write for Special Prices on Corn and Farm Seeds. Seamless 2 Bus. Bags, 55c Each.

McCULLOUGH'S SELECTED SEED POTATOES

Northern Grown Stocks

Selected and Grown Specially for Seed Purposes. Superior Both in Quality and Productiveness.

Prices of Potatoes are unsettled at time our Catalogue is printed. We will always fill orders from customers at our lowest prevailing prices for first-class seed potatoes, or we will cheerfully quote prices at any time upon request.

Any good well-drained, fibrous loam will produce Potatoes under right climatic conditions. A rich clover sod, manured and broken the year before and planted to corn, beans, peas, oats, etc., is in best shape for giving a good yield of nice clean Potatoes. Stable manure had better be applied to the land the year before.

Potatoes are planted early and late. Cut 2 to 3 eyes to a piece. Plant in rows or hills about 3 feet apart and about 15 to 18 inches apart in the hills or rows. Cover the seed four inches, but not so deep in wet, cold land. Just as soon as the bugs appear, use Paris Green or Arsenate of Lead.

One peck will plant about 100 feet of row, or 100 hills. Ten bushels are required to plant an acre.

Early Ohio (Red River Stock)

The Early Ohio is fully two weeks ahead of the Early Rose, and is a general favorite with potato growers.

Maturing early, it brings the highest prices. The tubers grow compact in the hill. Cooks dry and mealy.

Early Rose

It is productive, of most excellent table qualities, and a most satisfactory all-around early variety.

Beauty of Hebron

It is about a week later than the Early Rose, but claimed to be more productive, is white-fleshed and of superior flavor.

Burbank

A white-skinned, medium early variety. The flesh is white, very mealy and of fine flavor. The best Potato for baking.

Write for Special Prices.

Carman No. 3

Enormously prolific, averaging nearly a pound apiece; flesh snow-white and of fine cooking qualities.

Chicago Market

Very popular, early, good quality and yields well.

Early Six Weeks

Extra early, oblong in shape; flesh solid; cooks dry and mealy.

Early Triumph

It is from seven to ten days earlier than the Ohio. The Potato is of good size, squared at the ends. Skin is red, flesh is very white and firm. It is productive.

Irish Cobbler

One of the first varieties of Potatoes to be ready for market. The flesh is white and of fine flavor.

Rural New Yorker

A valuable variety of large size; very smooth and a great cropper; in quality unexcelled. It is the best late long keeper, and we recommend it highly.

White Star

A medium early variety of fine quality and appearance; large, oblong, uniform-sized tubers, remarkably productive.

White Elephant

Late, large, enormously productive, and of excellent flavor.

Hoosier Boy

A late variety and very productive.

Seed Sweet Potatoes

Yellow and Red Jersey, Red Bermuda and Southern Queen. Write for prices. Ready for shipment about April 1. For plants, see page 22.

INCREASE YOUR YIELD OF ALFALFA, CLOVERS, VETCH, COW PEAS, SOY BEANS

and other Legumes by inoculating your seed with

EDWARDS' LEGUME BACTERIA

ALL the requirements for successful inoculation are met in the cultures of EDWARDS' LEGUME BACTERIA. These cultures are manufactured by the method originated and successfully followed for ten years at the Ontario Agricultural College and the stock cultures were secured from the Bacteriological Laboratory of that institution. There can, therefore, be no question as to their efficiency. They are prepared under the personal supervision of S. F. Edwards, formerly Instructor in Bacteriology at the Michigan Agricultural College, Instructor in Bacteriology in the College of Medicine at the University of Michigan, and for nine and one-half years Professor of Bacteriology at the Ontario Agricultural College. The cultures are made according to the best principles of the science of Bacteriology, and special attention is given to keeping up the vigor and nitrogen-gathering power of the bacteria.

Cultures are made and kept in stock for legume crops as follows: Alfalfa, Sweet Clover, Red Clover, Alsike Clover, Crimson Clover, White Dutch Clover, Field or Garden Beans, Lima Beans, Soja Beans, Field or Garden Peas, Sweet Peas, Vetches, Cowpeas. Of this list the same culture can be used for either Alfalfa or Sweet Clover, and likewise, the same culture can be used for Red, Alsike, Crimson and Dutch Clovers. All the other crops require a different culture for each as named. The entire culture may be used on less than the amount of seed for which it is made without harm to the seed. The cultures are good for six months after leaving the laboratory. The cultures are sent by mail or express prepaid, with full directions for use.

EDWARDS' LEGUME BACTERIA cultures are made in two sizes:

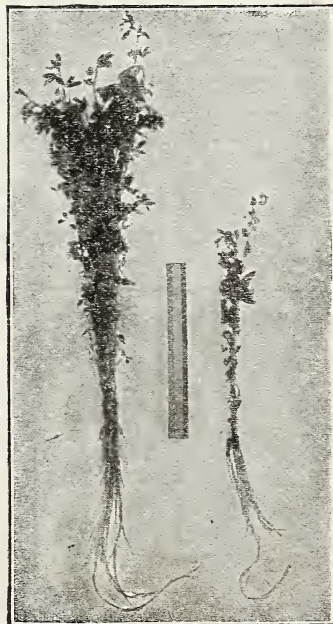
To inoculate 30 pounds of seed.....\$0.60

To inoculate 60 pounds of seed.....1.20

Directions for use on each package.

In ordering, be sure to name crop to be inoculated.

These prices mean a very low cost per acre, the exact amount depending on the amount of seed sown. The cost is less than to pay freight rates on soil from a distance, or even to haul it from a neighbor's field for soil inoculation, and the labor is much less, as seed for several acres can be inoculated in a few minutes with the pure cultures.



Alfalfa plants from inoculated and uninoculated seed. "The ruler is 12 inches long. The bunches of alfalfa are fair average samples from the treated and untreated plots."

Summer Flowering Bulbs and Roots

AMARYLLIS

PLANT in equal parts sandy loam and leaf mould. When the leaves appear, water carefully and not in too great quantity. The Formosissima and Rosea planted in May make rich and showy border plants.

Rosea. (Zephyranthus.) These flower all Summer. Small, delicate pink.

Each, 10c; per dozen, \$1.00.

Belladonna Major. White, turning to rose.

Each, 25c; per dozen, \$2.75.

Formosissima. Crimson.

Each, 15c; per dozen, \$1.50.

Johnsonii. Large flower, crimson-scarlet, striped with white.

Each, 35c; per dozen, \$3.50.

Halli, Hardy Amaryllis. (Lycoris Squamigera.) Produces in early Spring attractive green foliage which grows until July, when it ripens off and disappears. About one month later the flower stalks appear and grow to a height of two to three feet, developing an umbel of large and beautiful lily-shaped flowers three to four inches across and from eight to twelve in number, of a delicate lilac-pink, shaded with clear blue. In planting, cover the crown about four inches. Fine bulbs.

Each, 25c; per dozen, \$2.50.

Vittata Hybrids. The flowers are exceedingly rich in colors and markings, spikes are usually from two to three feet in height, bearing from three to five enormous trumpet-shaped flowers. . . Each, 50c; per dozen, \$5.00.

BEGONIAS TUBEROUS-ROOTED

THEY are now used extensively for outdoor planting. Give them a partially shaded position in a light soil and well drained position, and they will give more bloom than any other plant which will grow in such a place. A soil that will grow it to perfection is turfy matter scraped from the bottom of old sod—one part, and one part sand. Mix these well together, and you have a compost that is friable, porous, and well adapted to any plants having fine, fibrous roots. It is more satisfactory to apply plant-food when needed, and in such quantities as seem to be required, than to make the soil very rich from the start. Water very cautiously until active growth begins, then increase the amount. But at no time during its existence will the plant require more than enough to make—and keep—the soil moist all through. Good drainage should be provided to guard against over-watering. (See cut.)

SINGLE FLOWERING VARIETIES

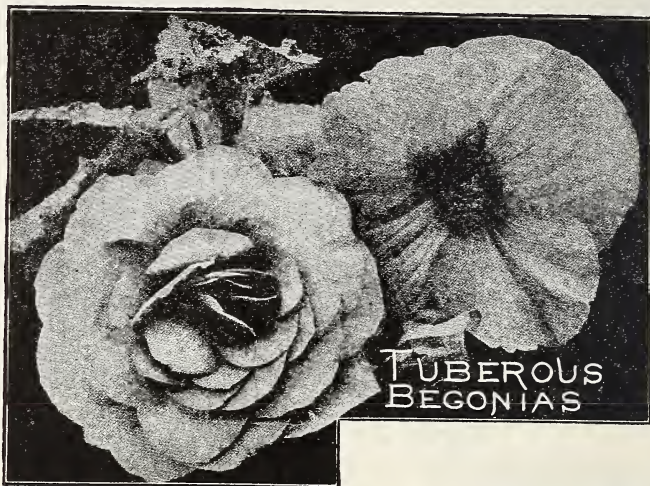
Single. Scarlet, white, pink, crimson, copper and yellow in separate colors.

Each, 15c; per dozen, \$1.25; per 100, \$10.00.

Single, Mixed. . . . Each, 15c; per doz., \$1.25; per 100, \$10.00.

DOUBLE FLOWERING VARIETIES

Double Mixed. Each, 20c; per dozen, \$2.00.



Begonias, Hardy

Exceedingly useful plants for the garden, good for shady places. Lustrous bronze green foliage with small pink flowers. Plants only. Each, 20c; per doz., \$2.00. (If sent by mail, each 25c; per dozen, \$2.50.)

CALADIUM ESCULENTUM (Elephant's Ear)

ONE of the most effective plants in cultivation for the flower border, or for planting out upon the lawn. It will grow in any garden soil, and is one of easiest culture. It should be planted in a rich compost, where it will obtain plenty of water. Foliage light green. (See cut.)

Size	Each	Doz.	By Mail
1. Small bulbs.	10c	\$1.00	15c each
2. Large bulbs.	15c	1.50	20c each
3. Extra large bulbs.	25c	2.50	30c each
4. Selected extra large.	35c	3.50	45c each
5. Monster bulbs.	50c	5.00	60c each

CALLA, SPOTTED

Golden Yellow. (Richardia Elliottiana.) This is the best of the Yellow Callas, its flowers being as large as the popular white variety, but of a rich lustrous golden-yellow of velvety texture; the foliage is dark green, with translucent creamy-white spots, which adds much to its beauty. Each, 25c; per dozen, \$2.50.

CANNAS

Select Large Flowering

THEY do well in all sections of the country, and stand preeminently at the head of the list, succeeding in any sunny position in any kind of soil, but responding quickly to liberal treatment. Cannas should be planted in good rich garden soil mixed with half of old rotten stable manure, by the end of May, when danger from frost is past. Water sparingly for first two weeks after planting. When growing freely, water liberally. Set the plants about 18 inches apart each way, and if more than one kind is used be careful to plant the taller growing kinds in the center and the dwarf ones along the edge. This applies to planting in beds.

Named Varieties

Dormant Roots, as listed. . . Each, 10c; per dozen, \$1.00; (By mail, per doz., \$1.15).

Express. Large, broad, bright scarlet-crimson flowers in immense trusses. The best dwarf red Canna; two and one-half feet.

Firebird. The best scarlet green-leaved variety. The flowers are borne in immense trusses on strong stalks well above the leaves. They are of splendid form, round and shapely. The petals measure and sometimes exceed two and one-half inches across, a clear glistening scarlet without any streaks, spots or blotches; four feet.

Cannas continued to page 53.



Caladium

CANNAS—Named Varieties—Continued

Florence Vaughan. Bright, rich golden-yellow, spotted with red; of large size and perfect form; green foliage; four feet.

Italia. Orchid-flowered. Bright orange-scarlet, with broad golden-yellow border; the flowers are produced on massive stems, set well above the foliage; which is large and heavy; green foliage; four feet.

Jean Tissot. One of the brightest; color an intense, brilliant vermilion, with bright orange shadings, a color that can be seen as far as the eye will carry; massive green foliage; five feet.

King Humbert. In this grand Canna we have a combination of the highest type of flowers with the finest bronze foliage. Its flowers measure 6 inches in diameter, produced in gigantic trusses, a brilliant orange-scarlet with bright red markings; foliage broad and massive, of a rich coppery-bronze; four to five feet.

Louisiana. Very large, beautiful, vivid, scarlet, orchid-like flowers, often measuring five to six inches across. Foliage a glossy green, edged with a narrow purple band; six feet.

Meteor. The best deep red large-flowered Canna, with massive, erect trusses of deep blood-red flowers; five feet.

Richard Wallace. A good free-flowering yellow Canna of vigorous growth, we believe this variety comes nearer to the ideal than any variety yet offered. In color it is a pleasing canary-yellow with exceptionally large flowers, which are carried well above the bright green foliage; four and one-half to five feet.

Rosea Gigantea. Large flowers, borne in such abundance that the mass of color is amazing. A deep rich rose, almost a coral carmine; four feet.

Venus. One of the softest and most delicately colored varieties that has yet been introduced. The flowers are of fair size, of a soft rosy pink, with a pretty mottled border of creamy yellow. The plant always presents a clean, fresh appearance; green foliage; three and one-half feet.

Wyoming. Massive orange flowers with purplish-bronze foliage, making a strong contrast; six feet.

Yellow King Humbert. Has the same habit of growth as the King Humbert. Has green foliage and produces yellow flowers, dotted with red; four to five feet.

Mixed Tall Varieties. Our selection; dormant roots. Each, 10c; per dozen, 75c; (per dozen by mail, 85c).

Mixed Dwarf Varieties. Our selection; dormant roots. Each, 10c; per dozen, 75c; (per dozen by mail, 85c).

CANNA PLANTS

CANNA PLANTS of the following varieties. Express, Firebird, King Humbert, Meteor, Rosea Gigantea, Venus, Wyoming, Yellow King Humbert.

Small Plants, each 15c; per dozen, \$1.50.

Large plants, each, 20c; per dozen, \$2.00.

Ready about May 10th. Sent by express only at purchaser's expense.



CINNAMON VINE

Beautiful Summer Climber, glossy foliage and fragrant flowers; stem dies down in Winter but the root is hardy. Large selected roots. Each, 10c; per dozen, \$1.00.

MADEIRA

or Mignonette Vine

A RAPID growing vine, covering a large space in a short time.

Fleshy, heart-shaped leaves of a light green and numerous racemes of feathery flowers of delicious fragrance.

Each, 5c; per dozen, 40c.

DAHLIAS

THE Dahlia is one of the most important Summer and Autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until stopped by frost. Especially fine for cut flowers.

One of the most important points in the cultivation of the Dahlia is to select a well-drained position where they will receive the full benefit of the sun during the greater part of the day.

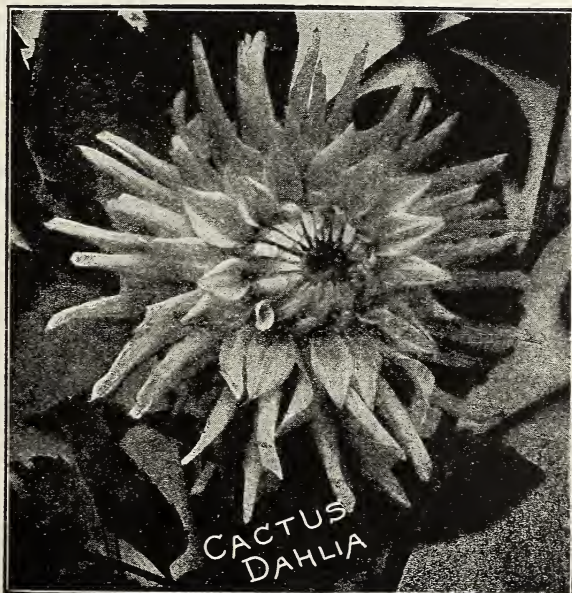
As to soil, they are not at all particular, except that in the case of a stiff clay some loose material should be added, such as coarse sand, old mortar, or anything which will make the soil loose and friable. The soil must be deeply dug, if possible to a depth of two spades, and a liberal amount of suitable plant food incorporated. For this nothing is more satisfactory than well-decayed stable manure, but where this can not be conveniently procured, pure bone meal, sheep manure, or any chemical fertilizer rich in ammonia and phosphoric acid will answer as a substitute.

The planting of dormant roots in the latitude of Cincinnati may be done at any time between April 25th and June 15th, the earlier planting being preferable. Plant the bulbs three inches below the surface of the ground, laying the bulb on its side. Do not crowd your plants, but plant at a distance of not less than two and one-half or three feet, and as soon as the shoots appear, remove all but two or three of the strongest, and these, when about a foot high should be secured to stout stakes.

Keep free from grass and weeds, and water regularly in dry weather.

NOTE.—We fill all orders with strong, divided dormant roots.

Dahlias continued to page 54.



Kriemhilde

DAHLIAS—Continued

Cactus Dahlias

Named Varieties. Each, 20c; per dozen, \$2.00.

If wanted by mail, add 15c per dozen for postage.

Else. Base of petals yellow, gradually passing to amber, finished with a tip of tyrian rose. A charming variety.

Florence M. Stredwick. A beautifully formed pure white cactus dahlia, with long narrow petals with small forets at the base of each petal, distinct.

Floradora. Pure garnet. Splendid free bloomer.

Gabriel. Long, incurved twisted petals; color combination of scarlet and cinnamon shades, sometimes tipped white.

General Buller. Rich velvety maroon, tipped white.

Kriemhilde. Deep rosy pink with lighter center. A distinct and valuable variety as the flowers keep a long time after cutting.

Marjorie Castleton. Rosy pink, tinted lighter toward center and tips.

Mrs. H. J. Jones. Very large, perfect, rich bright scarlet, with cream-colored edge.

Mont Blanc. A pure white, of splendid form, long, stiff stems.

Mrs. J. P. Mace. Very large, of beautiful, regular form. Color, soft shell pink.

Prince of Yellows. Soft, golden yellow. Profuse bloomer.

Rosy Morn. Bright carmine rose, tinted lighter toward the base of the petals.

Standard Bearer. Intense cardinal-red with long twisted petals; early and profuse bloomer.

White Kriemhilde. The best commercial white cactus dahlia. It has the wonderful keeping qualities of Kriemhilde, in connection with a rigid stem.

Decorative Dahlias

MANY beautiful varieties of Decorative Dahlias have been introduced in recent years, and in the following varieties some will be found with flat petals, others reflexed, while others will be curiously twisted and incurved. As cut flowers, these varieties will always maintain a leading place as their large and perfectly formed blooms are borne on long, stiff stems, continuing in good condition a long time and are of easy culture, succeeding under the most varied conditions of soil and climate. (See cultural directions for Dahlias.)

Named Varieties. Each, 20c; per dozen, \$2.00.

If wanted by mail, add 15c per dozen for postage.

Catherine Duer. Bright iridescent crimson scarlet.

Clifford W. Bruton. Large, clear canary yellow.

Delice. The best pure bright rose pink, entirely distinct.

Golden Wedding. The largest of all dahlias, the color is deep golden yellow.

Henry Patrick. Large snow-white.

Jack Rose. Brilliant crimson red.

Lyndhurst. The best bright red for cutting.

Minnie McCullough. Very striking. Soft golden yellow tipped bronzy red; effective.

Mrs. J. Gardner Cassatt. Flowers mauve-pink and of large size; a fine cut flower.

Nymphaea. A very delicate shrimp pink.

Orange King. Rich, glowing orange-scarlet.

Perle de Lyon. Splendid pure white.

Princess Juliana. Pure white, fine for cutting.

Professor Mansfield. A giant of most unique coloring; a pleasing combination of yellow, red and white.

Sylvia. Deep pink, tinting to flesh pink at center; large, perfect form, on long stiff stems.

Wm. Agnew. Very large, dazzling crimson scarlet.

Show Dahlias

Are a perfectly full rounded regular form, cupped or quilled petals and solid color or tipped darker than the ground color.

Named Varieties. Each, 20c; per dozen, \$2.00.

If wanted by mail, add 15c per dozen for postage.

A. D. Livoni. A clear pink, beautifully quilled, of perfect form and very free-flowering. (See cut.)

Arabella. One of the loveliest, soft primrose, shaded and tipped rose.

Dorothy Peacock. Large, perfect shaped flowers of a bright sea-shell pink color; very early, free and continuous blooming.

Miss Florence M. Shearer. A lovely variety, deep pink with light tips, giving it a soft, warm effect.

Princess Victoria. A sterling variety, being the earliest and freest flowering primrose yellow. In bloom early and late. Long stiff stems, fine for cutting.

Queen Victoria. Rich golden yellow; very fine.

Red Hussar. Richest dazzling cardinal red. Strong, vigorous grower and free bloomer on long stems.

Snowball. A large, pure white dahlia, of perfect ball form, on very long stems.

White Swan. Pure white, large and fine; the hardest and easiest grown; long stems.



A. D. Livoni

Collarette, Pompon, Fancy, Paeony Flowered and Single Dahlias

Named Varieties. Each, 20c; per dozen, \$2.00. If wanted by mail, add 15c per dozen for postage.

Crimson Queen. (Pompon.) Deep crimson, shaded purple.

Klien Domitea. (Pompon.) Bright golden terra cotta.

Snowclad. (Pompon.) A snowy white free bloomer.

Penelope. (Fancy.) White flaked, rosy lake, beautiful and chaste.

Etenderd de Lyon. (Collarette.) Scarlet, with creamy white collar.

Mme. Viger. (Collarette.) Richest garnet. Collar petals white, faintly suffused carmine.

Big Chief. (Paeony.) Rich crimson, margined maroon.

Sensation. (Paeony.) Vermilion red, tipped snow white.

Queen Emma. (Paeony.) Flowers of a peculiar shade of pink.

Cardinal Century. (Single.) The best single red.

Eckford Century. (Single.) Pure white, spotted and penciled with crimson.

Mrs. J. C. Hance. (Single.) Large, well rounded flowers; early in the season it is white, slightly flushed and tipped with pink; later in the season the entire flower is a tender rose pink.

Rose Pink Century. (Single.) The largest and best deep pink.

White Century. (Single.) Pure white with large, heavy, overlapping petals of good texture.

MCCULLOUGH'S MIXED DAHLIAS.

Our mixtures are made from selected varieties.

Double Mixed, Cactus Mixed, Single Mixed and All Varieties Mixed, our selection.

Each, 15c; per dozen, \$1.50.

If wanted by mail, add 15c per dozen for postage.

GLOXINIA

MAGNIFICENT for house culture, producing in great profusion, beautiful flowers of rich and beautiful colors. They succeed best in sandy loam and peat, and require a moist heat.

Large Flowering Varieties. Finest Mixed.

Each, 20c; per dozen, \$2.00.

GLADIOLUS

WITH its great diversity of color and splendid spikes of bloom which can be had from July until frost, the Gladiolus is preeminently the People's flower. Bulbs can be planted from the middle of April to July and should be set about 3 to 4 inches deep and 8 to 10 inches apart, according to the effect to be produced. Can be planted in succession for different blooming periods.

If wanted by mail, add 5c per dozen for postage. Single bulbs mailed without additional charge.

Gladioli in quantity by Parcel Post. If to be sent by this means, estimate postage at rate of 8 lbs. per 100 bulbs.

America. Conceded to be one of the finest varieties for cutting or bedding ever sent out; color a beautiful soft flesh-pink; orchid-like in its coloring and texture; growth and habit perfect.

Each, 5c; per dozen, 40c; per 100, \$2.50.

Attraction. Rich, deep crimson, with conspicuous pure white center and throat.

Each, 5c; per dozen, 40c; per 100, \$2.50.

Augusta. A lovely and useful pure white variety.

Each, 5c; per dozen, 40c; per 100, \$2.50.

Baron Hulot. Color a rich, royal violet blue, with well expanded flowers, very effective.

Each, 5c; per dozen, 50c; per 100, \$3.50.

Chicago White. Pure white with faint lavender streaks in the lower petals. They are borne on tall straight stems and from 5 to 7 flowers are open at one time. It is one of the earliest to bloom, hence valuable as a cut flower sort.

Each, 5c; per dozen, 50c; per 100, \$3.50.

Kunderi "Glory." The wide open flowers all face in the same direction and are carried on straight stout stalks. The color is a delicate cream pink with a most attractive crimson stripe in the center of each lower petal. The ruffling of the petals in this new strain has attracted much attention.

Each, 10c; per dozen, 90c; per 100, \$7.50.

May. Lovely, pure white flowers, finely flaked bright rosy crimson; strong spike. Good forcing variety.

Each, 5c; per dozen, 40c; per 100, \$2.50.

Mrs. Francis King. A magnificent new variety. The large blooms are of a delightful light scarlet and are well placed on the large spikes, bearing six open flowers at one time. . . Each, 5c; per dozen, 40c; per 100, \$2.50.

Mrs. Frank Pendleton. Color a lovely salmony pink, with brilliant deep red blotches in the throat.

Each, 10c; per dozen, 90c; per 100, \$7.50.

Niagara. In color the flowers are a delightful cream shade with two lower inside petals or segments blending to canary yellow. The throat is splashed with carmine, and the lower ends of the outside petals are also blushed with carmine. The stamens are purple and the stigmas pale carmine; this little addition in the coloring relieving the creamy effect of the petals.

Each, 10c; per dozen, 90c; per 100, \$7.50.

Panama. A new seedling of America which resembles the parent variety in every way except that it is a much deeper pink. A grand variety. Spike very long with flowers large and well arranged.

Each, 10c; per dozen, 85c; per 100, \$6.00.

Peace. Tall, graceful spikes of large, pure white flowers with a touch of carmine in the lower petals.

Each, 10c; per dozen, 75c; per 100, \$5.00.

Princeps. An especially fine variety with immense wide-open amaryllis-like flowers of a rich dazzling scarlet, marked with white on the lower portion, which serves to intensify the brilliancy of the scarlet.

Each, 10c; per dozen, 90c; per 100, \$7.50.

Sulphur King. The finest clear yellow yet introduced. Produces long spikes of attractive good sized flowers.

Each, 20c; per dozen, \$2.00; per 100, \$15.00.

COLLECTIONS OF CHOICE NAMED GLADIOLUS

1 each of the 14 varieties on this page.....	\$1.00
3 each of the 14 varieties on this page.....	2.50
6 each of the 14 varieties on this page.....	4.75
12 each of the 14 varieties on this page.....	9.00

If wanted by mail, add 5c per dozen for postage.

Gladiolus in Separate Shades

	Ea.	Doz.	100
Scarlet and Crimson shades mixed.....	5c	30c	\$2.00
White and Light shades mixed.....	5c	40c	3.00
Yellow and Orange shades mixed.....	6c	60c	4.00
Striped and Variegated shades mixed.....	5c	35c	2.50
Pink and Rose shades mixed.....	5c	35c	2.50



McCullough's Superb Mixed Gladiolus

This superb mixture is composed exclusively of high-grade varieties, including many new and rare kinds. It embraces the greatest possible range of color, and contains the best large-flowering sorts. . . . Each, 5c; per dozen, 35c; per 100, \$2.50.

Extra Fine Mixed

This mixture contains a very complete range of splendid varieties, and while not as fine as the preceding, the size and coloring of many of the sorts will be found out of the ordinary. . . . Each, 5c; per dozen, 30c; per 100, \$2.00.

If Gladioli are wanted by mail, add 5c per dozen for postage. Single bulbs mailed without additional charge.

Gladioli Bulbs weigh about 8 pounds per 100 and, if wanted in quantity by mail, include enough to cover postage in your remittance.

OXALIS (Summer-Flowering)

VALUABLE for edging walks, flower beds, etc. Bulbs planted three inches apart form rounded rows of delicate foliage, about one foot high, which produce flowers in endless succession.

Dieppi. Bright crimson.

Dieppi Alba. Pure white, very fine.

Lasandria. Fine, rose pink, beautiful cut foliage. The tallest.

Each variety. . . . Per dozen, 15c; per 100, 75c.

TUBEROSES

ONE of the most fragrant and beautiful of the summer flowering bulbs. For flowering in the open border, plant about the first of May.

Excelsior Pearl. Robust stem and long spikes of flowers, which are more double and twice as large as those of the old sort. . . Each, 6c; per dozen, 50c; per 100, \$3.00.

Dwarf Pearl. Large size.

Each, 5c; per dozen, 30c; per 100, \$2.00.

Single Ever-Blooming Tuberose. Is of the purest white, both inside and out.

Each, 6c; per dozen, 50c; per 100, \$3.00.

Everblooming Hybrid-Tea Roses

WE especially recommend this collection of Roses to those who wish a supply of extra choice flowers for cutting throughout the Summer and Fall months. All roses thrive best when well watered, sprayed with Hellebore and Bordeaux Mixture for insects and fungus, and fed either by applications of manure water, or bone meal at the rate of two pounds per square yard. The Hybrid Perpetuals are particularly susceptible to such treatment and respond quickly.

WINTER PROTECTION. In this latitude, we have found that the most satisfactory protection is to draw up a mound of soil from eight to ten inches high around the base of the plants, then covering the entire beds after the ground begins to freeze with any loose material such as straw manure, evergreen boughs, or corn stalks, and in more severe climates, heavier covering is all that is required.

STRONG 4-INCH POT PLANTS, on own roots, of all the following varieties, ready about May 10th.
Each, 35c; three for \$1.00; six for \$1.90; twelve for \$3.50. If wanted by mail, within the third zone, add 5c each; 50c per dozen for postage.

Alexander Hill Gray. Its color is a solid deep yellow throughout.

Bessie Brown. Creamy white flowers, sweetly scented.

British Queen. Surpassing in beauty and elegance of form all other White varieties.

Champion of the World. Clear bright pink; larger flower than Hermosa.

Dorothy Page Roberts. Coppery-pink, suffused apricot-yellow.

Edward Mawley. Is the finest of all dark crimson roses. A true perpetual flowering Hybrid Tea.

Etoile de France. Color a lovely shade of clear, red-crimson velvet; very fragrant and keeps well.

Etoile de Lyon. Bright sulphur-yellow; fine form, large size; a fine yellow rose.

Florence Forrester. Clear snow-white with a lemon tinge; fine rose for bedding.

Gruss An Teplitz. The finest brilliant red, everblooming garden rose.

Helen Good. Color delicate yellow, suffused with pink; chaste and beautiful; large size and form.

Hermosa. Bright pink color, free-flowering and perfectly hardy.

Jonkheer J. L. Mock. Color deep pink; outer petals silvery rose, very fragrant.

Killarney Brilliant. Color varies from pink to crimson. Very free bloomer.

Lady Ashtown. Deep rose, shading to silvery-pink, with touches of yellow at the petal base.

Lady Hillingdon. Deep coppery-yellow, and an attractive long bud; continuous bloomer.

Lady Pirrie. The outside petals are reddish-salmon; inside apricot, flushed fawn and copper.

La France. Beautiful bright silvery-pink, with pale lilac shading. Queen of all the roses.

Laurent Carle. Color brilliant velvety carmine.

Mabel Drew. The color is deep cream on first opening, passing to intense canary-yellow.

Madame Caroline Testout. Clear bright satiny-pink; flowers large and showy.

Madame Jenny Gillemot. Deep saffron-yellow, opening canary, with dark golden shadings.

Madame Jules Grolez. Clear deep rose, shaded yellow at the base; long pointed bud.

Mademoiselle Blanche Martignat. Beautiful peach-pink, with tints of yellow and crimson.

Maman Cochet. Light pink, shaded with salmon yellow, outer petals splashed with bright rose.

Melody. The color is an intense pure, deep saffron yellow, with primrose edge.

Mrs. Aaron Ward. In bud, a deep Indian yellow; when fully opened it is light yellow throughout.

Mrs. Andrew Carnegie. Color pale lemon-yellow at base of petals; shading to pure white.

Mrs. Arthur Robert Waddell. Rosy scarlet buds, opening reddish-salmon; reverse of petals rosy-scarlet.

Mrs. Benjamin R. Cant. Color deep rose; inner petals soft silvery-rose suffused with buff at base.



Mrs. Cornwallis West. In color between a shell and rose pink, on purest white; very attractive.

Mrs. Frank Bray. Deep, rich, coppery ecru, developing to a coppery-fawn with shading of pink.

My Maryland. Color glowing, intense pink which lightens up as the flower expands.

Ophelia. Salmon flesh, shaded with rose, large and of perfect shape.

President Taft. It has a shining, intense, deep pink color possessed by no other rose.

Radiance. Brilliant rosy-carmine, with beautiful rich and opaline-pink tints in the open flower.

Red Radiance. The color is dazzling crimson-scarlet with large flowers on strong stems.

Rhea Reid. Flower large and double; rich, dark, velvety red.

Richmond. Pure rich scarlet; very free and continuous flowering.

Safrano. Bright apricot color and very free blooming.

Souvenir De Pierre Notting. Color, apricot yellow, blended with coppery-yellow.

Souvenir De President Carnot. Delicate flesh shaded to white. Extra fine.

Sunburst. The color is orange-copper or golden-orange and golden-yellow; edge of petals lighter.

The Bride. Pure white, with tinge of pink; large, full and of perfect form.

White Killarney. It is pure white in color, long in bud, of fine form.

White La France. Beautiful light fawn color, almost white. Extra fine.

White Maman Cochet. Creamy-white flowers, faintly tinged with blush.

William R. Smith. Petals cream with flesh tint tips, buffy-yellow base and pink center.

Yellow Cochet. Clear sulphur-yellow, large, full and perfectly formed.

Yavonne Vacherot. Porcelain white, strongly marked with pure pink; long pointed buds.

STRONG 4-INCH POT PLANTS, on own roots, of all varieties listed. Ready about May 10th.
Each, 35c; three for \$1.00; six for \$1.90; twelve for \$3.50.

POLYANTHA or Baby Rambler Roses

A CLASS of miniature Roses derived from the Climbing Polyantha. They are of dwarf habit and bloom so freely as to cover the entire plant with bloom all through Summer and Fall. The plants are splendid for bedding, or as edgings for borders. They form shapely, compact, bushy specimens about 18 inches high, producing in great profusion from early in the season until severe frost, immense trusses of small flowers. Pruning is not necessary; simply remove the past season's flower stems.

STRONG 4-INCH POT PLANTS, on own roots, of all the following varieties. Ready about May 10th.
Each, 35c; three for \$1.00; six for \$1.90; twelve for \$3.50.

Anna Muller. Flowers are a shiny brilliant pink.

Catherine Zeimet. Grows about 20 inches high and produces double, pure white flowers.

Clothilde Soupert. Color effect is ivory-white, shading to bright silvery-pink at center.

Millie Cecile Brunner. Color blush, shaded light salmon-pink.

Orleans. Is a huge bouquet of deep cerise or geranium-pink with showy center of pure white.

Tip Top. Color brilliant golden-yellow, tipped with clear, bright cerise.

Rose Plants Travel Best by Express—But if Wanted by Parcel Post within Third Zone, add 5c each; 50c per dozen, for postage.

Hardy Herbaceous Perennial Plants

THE steadily increasing demand for hardy plants has induced us to give them more attention and to increase our stock considerably. For such of our customers who are not acquainted with the different varieties, we shall be pleased to make suitable selections of the most desirable species, that when once planted, with very little care, will keep the garden gay with flowers from the time frost leaves the ground until late in autumn.

Cannot accept orders for Hardy Perennial Plants totaling less than one dollar.

ACHILLEA (Sneezewort)

Boule De Neige. (Ball of Snow.) An improved variety, bearing pure white flowers of perfect form all Summer. Fine for cut flowers. Each, 20c; per dozen, \$2.00.
Eupatorium. (Parker's variety.) Produces brilliant yellow heads of flowers all Summer, with neat, finely-cut foliage. Each, 25c; per dozen, \$2.50.

AGROSTEMMA (Rose Campion)

Erect growing plants with silvery foliage and showy flowers during June and July.
Coronaria. (Mullein Pink.) Bright rosy-crimson flowers; 2 1/2 to 3 feet. Each, 20c; per dozen, \$2.00.

ALYSSUM (Madwort)

Saxatile Compactum. (Basket of Gold, Gold Tuft, Rockmadwort.) A fine plant for the rockery or border, grows 1 foot high and produces broad flat heads of yellow flowers in May. Each, 20c; per dozen, \$2.00.

ANCHUSA ITALICA

Dropmore Variety. Remarkable for its free and continual flowering all Summer and the beautiful gentian-blue of its flowers; grows about five feet high. Each, 20c; per dozen, \$2.00.
Myosotidiflora. Grows 10 to 12 inches high, producing during April and May sprays of beautiful Forget-Me-Not-like flowers of rich blue. Each, 35c; per dozen, \$3.50.

ANEMONE JAPONICA

(Japanese Wind-flower)

THEY grow two to three feet high and are in bloom from August till mid-November, furnishing abundant cut flowers and a brilliant display.
Alice. This new pink variety has silvery-rose, shell-like petals suffused with carmine. Each, 25c; per doz., \$2.50.
Queen Charlotte. Very large, semi-double flowers of La France pink. Each, 25c; per dozen, \$2.50.
Whirlwind. Large, semi-double, white flowers. Each, 25c; per dozen, \$2.50.

ANTHEMIS TINCTORIA

The hardy Marguerites are among the most satisfactory summer-flowering perennials, growing about 15 inches. Large golden yellow flowers. Each, 20c; per dozen, \$2.00.

ANTIRRHINUM (Snap Dragon)

THEY are undoubtedly one of the best cut flowers which can be grown, while for beds or borders they are a constant source of pleasure, being in flower all the time. Our collection embraces several colors in mixture. Each, 20c; per dozen, \$2.00.

AQUILEGIA (Columbine)

CHARMING hardy plants, with distinct clear-cut foliage, bearing in countless numbers through May and June exquisite clear blue, white, rose, yellow, purple and striped blossoms. They thrive well with ordinary garden culture, but do best in partially shaded nooks.

Chrysantha. (Golden Columbine.) Golden yellow flowers with long spurs. Each, 20c; per dozen, \$2.00.
Chrysantha Alba. A long spurred white variety. Each, 20c; per dozen, \$2.00.
Ccerulea. Flowers about three inches in diameter; the outer sepals deep lilac or blue, petals white, the deep blue spur tipped green. Each, 20c; per dozen, \$2.00.
Coerulea Hybrids. Beautiful variations from the standard type. Each, 20c; per dozen, \$2.00.
Rose Queen. Pleasing shade of delicate pink, long spurred flowers. Each, 20c; per dozen, \$2.00.

ASCLEPIAS (Butterfly Weed)

Showy native plants about 2 1/2 feet high, blooming during July and August.

Incarната Rosea. (Swamp Milkweed.) Pretty rose-flesh colored flowers. Each, 20c; per dozen, \$2.00.
Tuberosa. Brilliant orange-colored flowers. Each, 20c; per dozen, \$2.00.

We do not guarantee to replace plants, shrubs or trees at prices quoted.



ASTERS (Michaelmas Daisies or Starworts)

THESE are among the showiest of our late flowering hardy plants, giving a wealth of bloom at a season when most other hardy flowers are past, and for the best effect should be planted in masses of one color. The hardy sorts are entirely distinct from Annual Asters, being smaller in bloom but produced in greater quantity.

Beauty of Colwall. A grand semi-double flowering type of a beautiful lavender shade; height about four feet; September. Each, 25c; per dozen, \$2.50.
Grandiflorus. Flowers deep purple, large, borne on sturdy stems about three feet tall. A handsome variety. October. Each, 30c; per dozen, \$3.00.
Novi Belgii Climax. The plant is of strong vigorous habit, over 5 feet high, with pyramidal shaped flower stems filled with light lavender-blue flowers, each 1 1/4 inches or more in diameter. August to October. Each, 25c; per dozen, \$2.50.
Novi-Belgii, St. Egwin. Handsome flowers of cherry pink. September and October. Each, 25c; per dozen, \$2.50.
Novae-Angliae. A tall growing species, bearing clear purple flowers; September. Each, 20c; per dozen, \$2.00.
Novae-Angliae Roseus. Similar to the preceding, bearing rose-colored flowers. September. Each, 20c; per dozen, \$2.00.
Novae-Angliae. Mrs. F. W. Raynor. Large, deep, crimson. September. Each, 20c; per dozen, \$2.00.
Snowflake. Grows to nearly two feet. Flowers pure white. September. Each, 20c; per dozen, \$2.00.

BAPTISIA (False Indigo)

Australis. Grows about 2 feet high with dark green, deeply-cut foliage and spikes of dark blue flowers in June. Each, 20c; per dozen, \$2.00.

BEGONIAS, HARDY

EXCEEDINGLY useful plants, thriving best in a partially shaded, moist situation. Lustrous bronze green foliage with small pink flowers. Bloom all Summer. Each, 20c; per dozen, \$2.00.

BELLIS PERENNIS (English Daisy)

Double flowering, white and pink. Each, 10c; per dozen, \$1.00.

BOCCONIA (Plume Poppy)

Cordata. A splendid plant, growing sometimes six feet high, bearing panicles of creamy-white flowers in July and August; makes a grand effect as a center in a hardy bed or a border background. Each, 20c; per dozen, \$2.00.

BOLTONIA (False Chamomile)

TALL growing, showy plants, with flowers resembling hardy Asters; appearing in September.
Asteroides. Pure white; five to six feet. Each, 20c; per dozen, \$2.00.
Latisquama. Pink, tinted lavender, six feet. Each, 20c; per dozen, \$2.00.

HARDY HERBACEOUS PLANTS—Continued

CAMPANULAS (Bell Flower)

BELL-SHAPED flowers, well known and easily grown, of much variety of form, some being tall and suitable for planting in borders or among shrubbery, while others are dwarf and suitable for edging, rockwork, etc.

Carpatia. (Carpathian Hare Bell.) Ideal for border or rockery planting, being about eight inches high; flowers from June till frost. Blue and white, each separate. Each, 20c; per dozen, \$2.00.

Calycanthema. (Cup and Saucer.) White, pink and blue; grows about two feet high and blooms from June to August. Each, 20c; per dozen, \$2.00.

Medium. (Canterbury Bell.) Single white, single blue and single pink; grows two to three feet high and blooms during late Spring and early Summer. Each, 20c; per dozen, \$2.00.

Persicifolia (Peach Bells.) Blue flowers during June and July; 2 feet. Each, 25c; per dozen, \$2.50.

CERASTIUM (Snow in Summer)

Tomentosum. Suitable for the rockery or for covering dry, sunny spots. Low growing plant with silvery foliage and white flowers in June. Each, 20c; per dozen, \$2.00.

CHELONE (Shell Flower)

STATELY plants growing about two feet high and bearing numerous spikes of large flower-heads during the Summer and Fall.

Lyoni. Showy, purplish-red flowers. Each, 25c; per dozen, \$2.50.

CHRYSANTHEMUMS (Hardy)

THESE varieties are very popular for outdoor bedding. Will produce an abundance of bloom until killed by frost.

Old-fashioned, Large Flowering Varieties: **Indian.** Brilliant red. **Golden Queen.** Yellow. **Old Homestead.** Delicate soft pink. **Victory.** White. All the above. Each, 20c; per dozen, \$2.00.

Pompon Varieties: **Baby.** A miniature lemon-yellow. **Fairy Queen.** Soft cherry-pink; blooms in mid-season. **Golden Pheasant.** Rich, golden-yellow. **Model of Perfection.** Snowy white. **Rhoda.** Apple-blossom pink. **Rufus.** Light red. All of the above. Each, 20c; per dozen, \$2.00.

COREOPSIS

LANCEOLATA GRANDIFLORA. A beautiful hardy border plant; grows eighteen inches high, and produces its bright golden yellow flowers in great profusion the entire season. Each, 20c; per dozen, \$2.00.

DELPHINIUM (Perennial Larkspur)

THESE are deservedly one of the most popular subjects in the hardy border, bold, attractive, and highly prepossessing plants of easiest culture; perfectly hardy. They will establish themselves in almost any garden soil, but respond quickly to liberal treatment. Will begin blooming about the middle of June. If stalks are cut off as soon as flowers fade, they will continue blooming all Summer. (See cut.)

Belladonna Hybrids. The freest and most continuous blooming of all. The clear turquoise-blue flowers are not surpassed by any. 3 feet. Each, 20c; per dozen, \$2.00.

Belladonna Semi-plena. Clear blue flowers, overlaid with pink. 3 feet. Each, 25c; per dozen, \$2.50.

Formosum. Dark blue, white center, spikes three to four feet tall, vigorous; free blooming. 3 feet. Each, 20c; per dozen, \$2.00.

Moerheimi. This white hybrid is of vigorous growth with flowers of purest white. 3 feet. Each, 25c; per dozen, \$2.50.

Giant Hybrids. Unquestionably the finest strain of mixed hybrids ever offered. The original stock came from Europe, and consisted of the best-named varieties. The plants are of strong, vigorous habit, with large flowers on spikes two feet and over long, the majority running in the lighter shades of blue. Each, 20c; per dozen, \$2.00.

DIELYTRA OR DICENTRA

Formosum. (Plumy Bleeding Heart.) Grows about fifteen inches high, with finely cut, ornamental foliage and produces its fine pink flowers from April to August. Each, 20c; per dozen, \$2.00.

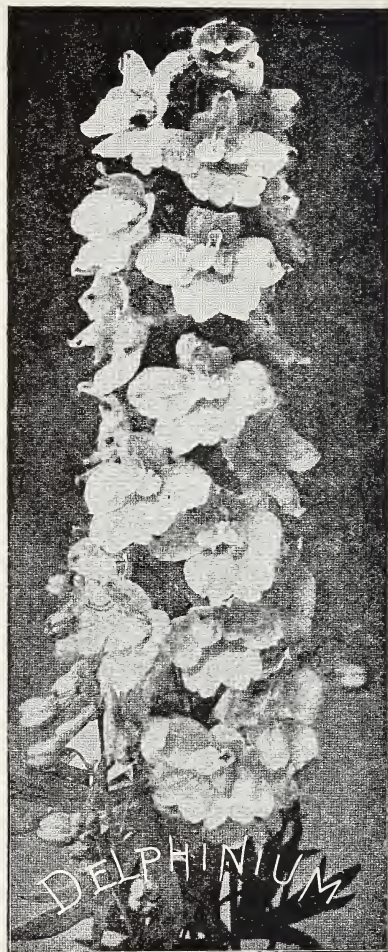
Spectabilis. (Bleeding Heart, or Seal Flower.) An old-fashioned favorite; its long racemes of graceful, heart-shaped pink flowers are always attractive; is perfectly at home in any part of the hardy border, and especially valuable for planting in the shade. Each, 20c; per dozen, \$2.00.

DIGITALIS (Foxglove)

THE strong flowerstalks—frequently four to six feet high—rising from rich and luxuriant masses of leaves, always give an appearance of strength to the hardy border.

Gloxiniæflora. Finely-spotted varieties. White, purple, rose or mixed. Each, 20c; per dozen, \$2.00.

We do not guarantee to replace plants, shrubs or trees at prices quoted.



FUNKIA (Plaintain Lily)

THE Plaintain Lilies are among the easiest plants to manage; their broad, massive foliage makes them attractive subjects for the border, even when not in flower. They succeed equally well in sun or shade.

Coerulea. (Blue Day Lily.) Blue flowers and broad green leaves. Each, 20c; per dozen, \$2.00.

Glaucia. Purplish-white flowers with immense foliage. Each, 20c; per dozen, \$2.00.

Subcordata Grandiflora Alba. (White Day Lily. August Lily.) Pure white, lily-shaped, fragrant flowers. Each, 20c; per dozen, \$2.00.

Thomas Hogg. Leaves are larger than Subcordata Alba and variegated around edges, with lavender flowers. Each, 20c; per dozen, \$2.00.

Undulata Variegata. Foliage green, striped with white. Each, 20c; per dozen, \$2.00.

GAILLARDIA (Blanket Flower)

Grandiflora. Beginning to flower in June, they continue one mass of bloom the entire Summer. Flowers three inches in diameter; center dark reddish-brown; petals orange to crimson. Each, 20c; per dozen, \$2.00.

GYPSOPHILA (Baby's Breath)

DURING August and September the plant is a mass of delicate feathery blooms. These may be used as fresh cut flowers, also for a semi-everlasting effect.

Paniculata. Loose, feathery sprays of white flowers, making a mist-like effect, fine for bouquets. Each, 20c; per dozen, \$2.00.

Paniculata Flore Pleno. Produces double, pure white flowers. Splendid for bouquets. Each, 25c; per dozen, \$2.50.

GRASSES, Ornamental. (See page 62.)

HARDY HERBACEOUS PLANTS—Continued

HELIANTHUS (Hardy Sunflower)

THE perennial Sunflower is very effective either in borders, among shrubbery, or as clumps on the lawn, etc.

Multiflorus Fl. Pl. Large, double Dahlia-like golden-yellow flowers in great profusion during July and August; four feet. Each, 20c; per dozen, \$2.00.

Maximiliana. Flowers in long, graceful sprays during October, when all others have finished flowering; five to seven feet. Each, 20c; per dozen, \$2.00.

Mollis. Large, single lemon-yellow flowers, with downy white foliage; blooms in August and September; four feet. Each, 20c; per dozen, \$2.00.

Sparsifolius. A most gracefully formed single variety of large size, of a deep yellow color, on long stems; splendid for cutting; August to September; six to eight feet. Each, 20c; per dozen, \$2.00.

HELENIUM (Sneezewort)

THESE are desirable border plants, succeeding in any soil in a sunny location; useful for cutting.

Autumnale Superbum. Flowers are deeper yellow, separate and distinct from Riverton Beauty. Each, 20c; per dozen, \$2.00.

Riverton Beauty. Lemon-yellow, with large purplish-black cone. Each, 20c; per dozen, \$2.00.

Riverton Gem. Old gold changing to wall-flower red. Each, 20c; per dozen, \$2.00.

HELIOPSIS (Orange Sunflower)

Pitcheriana. Very similar to a small sunflower, but blooming earlier; deep golden yellow; all Summer, June till frost; three feet high. Each, 20c; per dozen, \$2.00.

Scabra Zinniaeflora. A new double flowering form of the Orange Sunflower, somewhat resembling a Zinnia in shape. Fine for cutting; July and August; two feet. Each, 25c; per dozen, \$2.50.

HEMEROCALLIS (Yellow Day Lily)

Lily-like plants, which flower in greatest profusion during the Summer.

Aurantiaea Major. Grows two to three feet high and produces deep, orange-colored flowers during June and July. Each, 20c; per dozen, \$2.00.

Flava. The best known variety, very fragrant, deep lemon-yellow flowers in June and July. Each, 20c; per dozen, \$2.00.

Luteola. Blooms during July and August; flowers a pleasing shade of lemon-yellow. Each, 20c; per dozen, \$2.00.

Sovereign. Cup-shaped flowers; inside of petals light yellow, outside brown; blooms during July and August. Each, 20c; per dozen, \$2.00.

Thunbergii. Bears rich, buttercup-yellow, funnel-shaped flowers in July and August. Each, 20c; per dozen, \$2.00.

HEUCHERA (Alum Root)

FOLIAGE remains close to the ground. During July and August, the graceful thin flower spikes, 2 feet high, appear in profusion.

Sanguinea. Bright scarlet. Each, 20c; per dozen, \$2.00.

HIBISCUS (Mallow)

THESE are a mass of bloom during the entire Summer, when they produce large flowers in gorgeous colors.

Mallow Marvels, Giant-flowering. Flowers of enormous size, frequently 10 to 12 inches in diameter. Plants grow from 5 to 8 feet high, and bloom from early in July until late in Autumn. We offer three distinct colors—red, pink and white—strong roots. One each of the 3 colors for \$1.00. Each, 35c; per dozen, \$3.50.

Crimson Eye. Blooms of purest white with deep crimson eye; flowering in July; 4 feet. Each, 20c; per dozen, \$2.00.

HOLLYHOCK

FOR planting in rows or groups on the lawn, or for interspersing among shrubbery, they are invaluable. They require rich, deep soil, well drained.

Double White, Double Rose, Double Yellow, Double Red, Double Mixed. Each, 20c; per dozen, \$2.00.

Single Red, Single Rose, Single Yellow, Single Mixed. Each, 20c; per dozen, \$2.00.

IBERIS (Hardy Candytuft)

Sempervirens. Low-growing, with evergreen foliage. In Spring and early Summer, is completely covered with dense heads of pure white flowers. Each, 20c; doz., \$2.00.

JAPANESE IRIS (Iris Kaempferi)

THEY are most effective when planted in groups, and thrive best in a moist soil. The flowers are of immense size, from six to eight inches in diameter, and of the most beautiful and delicate shades. They are perfectly hardy, flowering in great profusion during June and July. (See cut.) We offer the following list of named sorts:

Azuma Yuki, No. 81. Petals rosy purple with heavy white veins, standards brownish-red, striped with white, yellow star center.

We do not guarantee to replace plants, shrubs or trees at prices quoted.



Banrai Nami, No. 1. Petals pale pinkish white with white standards and yellow center.

Furomon, No. 28. Petals bright pink, shading to creamy white, with heavy purple veins, standards purple, yellow center.

Gosetsu No Mai, No. 12. Petals light blue, yellow star center, with dark bluish purple standards.

Kimino-Medmui, No. 97. Soft lilac, with dark purple veins, and purple standards.

Krishi-Ikari, No. 85. Petals brownish-red with light brown veins, center yellow, standards scarlet, striped with white.

Kyo-Dai-Yama, No. 59. Petals indigo, standards greenish blue, striped with white.

Okino-Kamone, No. 65. Petals recurved and creamy white, standards pure white.

Sassa No Koe, No. 34. Petals recurved and creamy white, veined pink and white, orange center, standards pure white, spotted deep pink.

Shiraito-Daki, No. 100. Petals creamy white with bluish tinge, finely veined, center yellow, standards white with deep blue edges.

Yezo-Nishiki, No. 16. Petals lavender, heavily spotted with dark purple, center yellow, standards lavender, bordered with purple.

Yodo No Kuruma, No. 8. Petals bright pink, shading to dark pink at center and heavily veined, standards purple, marbled with white.

Above named varieties, each, 30c; per dozen, \$3.00.

By mail, each, 35c; per dozen, \$3.50.

Finest Mixed (Our selection). Each, 20c; per dozen, \$2.00. By mail, each, 25c; per dozen, \$2.50.

We can furnish large clumps of most of the above varieties from \$1.00 to \$1.50 each.

LIBERTY IRIS (Flag Iris)

The "Fleur-de-Lis" of France

THE Liberty Iris is one of the most desirable May flowering plants. The flowers are of large size and of exquisite colors. For the best results plant in well-drained sunny position, barely covering the roots. Avoid fresh manure in preparing your border.

Baron von Humboldt. Dark blue.

Canary Bird. Light yellow or buff.

Coerulea. Sky blue.

Florentina Alba. White.

Florentina Coerulea. Blue, very fine.

King of Yellows. Yellow.

L'Innocent. White, veined with orange purple.

Mme. Chereau. Pure white, border of blue.

Mont Blanc. Pure white.

Purpurascens. Dark purple.

Queen Victoria. Blue, changing to bluish white.

Thorbecke. White and deep violet.

Price of above. Each, 20c; per dozen, \$2.00.

If by mail, add 5c each, 50c per dozen.

We can furnish large clumps of most of the above varieties from 50c to \$1.00 each.

HARDY HERBACEOUS PLANTS—Continued

IRIS PALLIDA DALMATICA

This variety is of strong, vigorous habit, growing in good soil 4 feet high, with exceptionally large, fragrant flowers, standards lavender, falls lavender, shaded blue; exquisite in every way and fine for massing.

Each, 25c; per dozen, \$2.50.

IRIS SIBERICA

Orientalis. (Yale Blue.) A slender, graceful, tall-growing Iris, with flowers quite similar to those of the Liberty Iris, but smaller and much more numerous. The plants form large, strong, compact clumps, and bloom so freely that the deep blue flowers give almost a solid color effect. Each, 20c; per dozen, \$2.00.

LIATRIS (Blazing Star, or Gay Feather)

MOST showy and attractive native plants, succeeding anywhere and producing their large spikes of flowers from July to September.

Pycnostachya. Spikes of light, rosy-purple flowers; five feet. Each, 20c; per dozen, \$2.00.

Spicata. Deep purple flowers, in spikes two to three feet high. Each, 20c; per dozen, \$2.00.

LUPINUS POLYPHYLLUS (Lupine)

EFFECTIVE plants, producing large spikes of flowers. Will thrive in any good garden soil; grow about three feet high and bloom latter part of May and early June.

Polyphyllus. Clear blue. Each, 20c; per dozen, \$2.00.

Albus. A white variety of above. Each, 25c; dozen, \$2.50.

Moerheimi. Its clean, bold growth always attracts attention. The spikes of flowers are frequently over a foot long, in color superb, being a combination of light and dark shades of pink, without a trace of magenta. Each, 25c; per dozen, \$2.50.

LYCHNIS

Arkwrighti. Produces large circular flowers varying in color through crimson, scarlet, orange, salmon and intermediate shades; blooms all Summer and grows about 2½ feet high. Each, 50c; per dozen, \$5.00.

Chalcedonica. A desirable plant, grows two to three feet high; flowers brilliant orange scarlet.

Each, 20c; per dozen, \$2.00.

Viscaria Splendens. (Catch Fly.) Is a brilliant border plant, the flowers being produced in dense spikes.

Each, 20c; per dozen, \$2.00.

LYTHRUM

Roseum Superbum. (Rose Loose Strife.) A strong growing plant, three to four feet high, producing large spikes of rose colored flowers from July to September.

Each, 20c; per dozen, \$2.00.



MERTENSIA (Blue Bells)

Virginica. An early spring-flowering plant, growing about one to one and one-half feet high, with drooping panicles of handsome, light blue flowers, fading to clear pink; one of the most interesting spring flowers, blooming in May and June. Each, 20c; per dozen, \$2.00.

MONARDA (Bergamot)

SHOWY plants, growing from two to three feet high, succeeding in any soil or position, with aromatic foliage, and producing their bright flowers during July and August.

Didyma. (Oswego Tea.) Flowers bright scarlet.

Each, 20c; per dozen, \$2.00.

MYOSOTIS (Forget-Me-Not)

Palustris Semperflorens. A variety that is hardly ever out of flower. Useful in a shady spot in the border.

Each, 20c; per dozen, \$2.00.

Alpestris Robusta Grandiflora. The large spring-flowering Forget-Me-Not, with intense sky-blue flowers.

Each, 20c; per dozen, \$2.00.

OENOTHERA (Evening Primrose)

ELEGANT subjects for growing in an exposed, sunny position, either in the border, or on the rockery, blooming all Summer.

Pilgrimi. Large clusters of bright yellow flowers.

Each, 20c; per dozen, \$2.00.

PLATYCODON (Balloon Flower or Japanese Bell Flower)

THE Platycodons are closely allied to the Campanulas, and form neat, branched bushes of upright habit.

Grandiflorum. Deep blue, cupped, star-shaped flowers, one and a half feet. Each, 20c; per dozen, \$2.00.

Album. A white-flowered form of the above.

Each, 20c; per dozen, \$2.00.

Mariesi. Deep blue, bell-shaped flowers, nearly three inches across on one-foot-high plants.

Each, 20c; per dozen, \$2.00.

PHLOX DIVARICATA CANADENSIS

This variety is worthy of extensive planting, as it commences to bloom early in April and continues through May, with large, fragrant lavender flowers, on stems 10 inches high.

Each, 20c; per dozen, \$2.00.

HARDY PHLOX (Phlox Decussata)

PROBABLY the most satisfactory of all perennials, and a good space, in proportion to the size of the garden, should always be given to these plants. These are justly esteemed as the finest herbaceous plants. They are of dwarf habit, perfectly hardy, of very easy culture, and yield a profusion of bright showy bloom. They are hardly equaled by any other hardy plant for the decoration of the garden. (See cut.)

Africa. Brilliant carmine-red with deeper eye.

Baron Von Dedem. Blood-red scarlet, immense trusses.

Beranger. White ground, delicately shaded with pink and distinct red eye.

Bridesmaid. Pure white, with crimson-carmine eye.

Coquilecot. Bright orange-scarlet, with crimson eye; extra large compact flower heads.

Daubigny. Rosy purple, with enormous florets.

Eclairer. Dark crimson, center rose, surrounded with white; an excellent variety.

Etna. Deep, fiery red; dark eye.

F. G. Von Lassburg. The finest white flowers; very large; strong, vigorous grower.

Frau Anton Buchner. The finest white yet introduced, having the largest truss and individual flower.

Geo. A. Strohlein. Bright scarlet, with crimson red eye; large flowers, does not bleach.

Henry Murger. White, with crimson-carmine center; a beautiful variety.

Independence. An early, pure white.

Le Soleil. Bright china rose, dark rose center.

Mme. Paul Dutrie. Delicate lilac-rose, in shade like a soft pink Orchid; flowers very large, borne in immense panicles.

Miss Lingard. (Suffruticosa.) Pearly white, early and free.

Obergartner Wittig. Large, crimson-carmine flowers, vigorous grower.

Pantheon. Bright carmine rose; large and fine.

R. P. Struthers. Bright rosy-carmine, with claret-red eye.

Richard Wallace. White, with bright crimson center, large flowers in immense panicles.

Rosenburg. Bright, reddish violet with blood-red eye; individual flowers large.

Selma. Large trusses of very large pink flowers, with cherry-red eye; choice.

Snowflake. Large flowering, pure white.

Thebaide. Salmon, with carmine eye, dwarf.

Wm. Robinson. Bright pink. Tall growing variety.

PRICE—Any of the above, each, 20c; per dozen, \$2.00.

If wanted by mail, add 5c each; 50c per dozen for postage.

We do not guarantee to replace plants, shrubs or trees at prices quoted.

HARDY HERBACEOUS PLANTS—Continued

PHLOX SUBULATA

(Moss, or Mountain Pink)

An early spring-flowering type, with pretty moss-like evergreen foliage, which, during the flowering season, is hidden under the masses of bloom. An excellent plant for the rockery, the border, and invaluable for carpeting the ground, or covering graves.

Alba. Pure white. Rosea. Bright rose.

Each, 20c; per dozen, \$2.00.

PHYSOSTEGIA (False Dragon-Head)

One of the most beautiful of our mid-summer flowering Perennials, forming dense bushes three to four feet high, bearing spikes of delicate tubular flowers not unlike a gigantic heather.

Virginica. Bright, soft pink. Each, 20c; per dozen, \$2.00.

Virginica Alba. Pure white. Each, 20c; per dozen, \$2.00.

ICELAND POPPIES

(Papaver Nudicaule)

THE plant is of neat habit, forming a tuft of bright green, fern-like foliage, from which spring, throughout the entire season, a profusion of slender, leafless stems one foot high, each graced with charming cup-shaped flowers. They flower the entire Summer.

Orange King, White, Yellow, Mixed Colors.

Each, 20c; per dozen, \$2.00.

ORIENTAL POPPIES

(Papaver Orientale)

THESE are the regal representatives of this popular genus, far surpassing in splendor of bloom all the annual and biennial kinds, and for a gorgeous display of rich and brilliant coloring, nothing equals them during their period of flowering in May and June, and whether planted singly or in masses, their large flowers and freedom of bloom render them conspicuous in any position. After flowering, the plants die back, usually re-appearing along in early September, or as soon as the weather gets cool. During this resting period, care should be taken in cultivating the beds, that the roots are not disturbed, any disturbance at this time usually resulting in failure. We offer the following distinct varieties:

Diana. Beautiful salmon flowers.

Goliath. Flowers scarlet, of enormous size.

Mahogany. Dark red, shading to crimson maroon.

Perry's White. The flowers are a pure satiny white, with a crimson-maroon blotch at the base of each petal.

Each, 35c; per dozen, \$3.50.

Princess Victoria Louise. Soft lilac rose.

Procerpine. Dark lilac, with large black blotch.

Royal Scarlet. Scarlet flowers, with black center.

Salmon Queen. Soft, salmon-scarlet; very distinct.

Wittenbergia. Large scarlet flowers.

The above varieties. . . Each, 25c; per dozen, \$2.50.

Except where otherwise noted.

Mixed Varieties. Each, 20c; per dozen, \$2.00.

HARDY GARDEN PINKS

THESE old-fashioned favorites are absolutely perfect as an edging for the hardy border; as cut flowers they are indispensable.

Her Majesty. A pleasing plant growing to about one foot and bearing large, snowy white flowers.

Each, 20c; per dozen, \$2.00.

White Reserve. A pure white variety, possessing a spicy fragrance. Ever-blooming.

Each, 20c; per dozen, \$2.00.

Mixed Hardy Garden Pinks. Seedlings grown from a very select strain, which should produce a good percentage of double flowers. . Each, 20c; per dozen, \$2.00.

PAEONIA OFFICINALIS

THIS type is the real old-fashioned "Paeony," and comes into bloom from ten days to two weeks ahead of the named sorts. All are strong growers, with large, full, double, fragrant flowers.

Alba, bluish-white; Rosea, rose; Rubra, crimson.

Each, 25c; per dozen, \$2.50.

Paeonies—Japanese Single

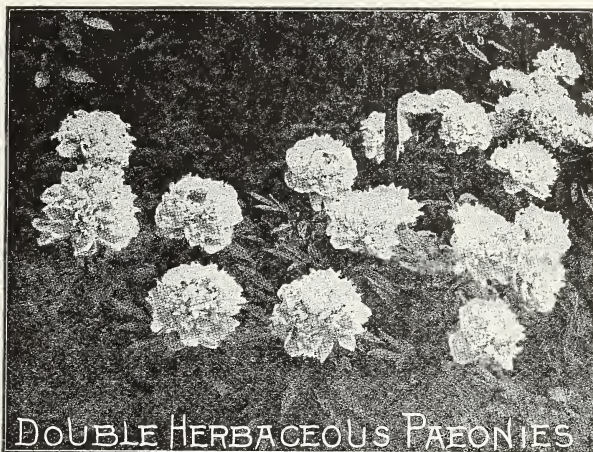
THE single Paeonies are even more beautiful than the double. They are larger in size of flowers and more delicate in coloring. No other plant flowering at the same season can vie with the Single Paeony.

Mixed Colors. Each, 30c; per dozen, \$3.00.

Paeonies in Mixture

THEY are from our named varieties. We keep the colors separate and offer them to color as follows: White, red and pink in mixture. . Each, 25c; per dozen, \$2.50.

We do not guarantee to replace plants, shrubs or trees at prices quoted.



DOUBLE HERBACEOUS PAEONIES

MAGNIFICENT, hardy plants, almost rivaling the rose in perfume, brilliancy, color and perfection of bloom. They are perfectly hardy, require little or no care, and produce larger or finer blooms when well established. (See cut.)

Dorchester. A most beautiful, soft pink of fine form, dwarf grower. Each, 35c.

Duc de Wellington. Large bomb, white guards, sulphur center; fragrant. Each, 40c.

Edulis Superba. Bright, mauve pink color mixed with lilac; fragrant. Each, 25c.

Felix Crousse. Large, double, ball-shaped bloom; color brilliant red. Each, 50c.

Festiva Maxima. White, with carmine tipped flakes to a few center petals. Each, 40c.

Floral Treasure. Large, full, clear pink, with lighter center. Each, 40c.

Hamlet. Color very dark red. Each, 25c.

Jeanne D'Arc. Outside petals rose colored, inside straw colored, with crimson spots. Each, 60c.

Livingstone. Rosy pink, silvery reflex. Each, 75c.

Louis Van Houtte. Deep carmine-rose, tipped silver with a brilliant, fiery reflex. Each, 30c.

Mme. Calot. Large, pale hydrangea-pink, with darker shadings in the center. Each, 40c.

Madame Boulanger. Color glossy, tender rose, shading to heliotrope, bordered with silvery flesh. Each, 40c.

Mathilde de Roseneck. Late, soft flesh-pink, shading deeper toward the center with tints of lilac and chamois; petals bordered with silver and occasional narrow edgings of bright carmine. Each, 50c.

Marie Lemoine. Large, sulphur white, shaded with pink; magnificent. Each, 40c.

Meissionier. Broad outer petals, brilliant purple anthers, inner petals crimson, free bloomer. Each, 35c.

Purpurea Superba. Large purplish-crimson, large guards. Each, 30c.

Queen Victoria. Large, full compact bloom, opening flesh, changing to white, center petals tipped with carmine. Each, 30c.

Rosa Magna. Beautiful, large, rose colored Paeony. Very free. Each, 25c.

Thorbeckii. Deep red pink, of fine form, lighter in center. Medium dwarf. Each, 35c.

Tricolor Rosea. Dark violet rose; large globular flower. Each, 40c.

MCCULLOUGH'S PAEONY COLLECTION—one each of the above twenty named varieties for \$7.00, purchaser paying express charges.

We can supply large clumps of many varieties of Paeonies from \$1.00 to \$1.50 each.

If to be sent by mail, add 5c each, 50c per dozen.

PYRETHRUM

THE large daisy-like blooms appear as early as June and continue in abundance continuously until September. They delight in a rich soil with a natural drainage. They thrive best in the full sunlight. As the flowers die, the old stems should be cut off to encourage new blooms.

Hybridum Fl. Pl. Double flowering, mixed. Each, 20c; per dozen, \$2.00.

Hybridum, Single Flowering. In choicest mixture. Each, 20c; per dozen, \$2.00.

Uliginosum. (Giant Daisy.) Grows four to five feet high, and is covered with large white daisy-like flowers three inches in diameter from July to September.

Each, 20c; per dozen, \$2.00.

HARDY HERBACEOUS PLANTS—Continued

RUDBECKIA (Cone Flower)

A VARIETY of these will furnish a supply of cut flowers from early July until September. They are extremely hardy, doing well with every one. They could be termed "a city garden perennial," doing so well with little attention.

- Golden Glow.** Double canary yellow flowers: six feet; August. Each, 20c; per dozen, \$2.00.
- Newmanni.** Single dark orange, with deep purple cone center; three feet high; flowers from July to September. Each, 20c; per dozen, \$2.00.
- Purpurea.** (Giant Purple Cone Flower.) The flowers remain in perfect condition on the plants for weeks at a time. In fact, we do not know of any other perennial where the flowers last so long in perfect condition. Flowers from July to September; two and a half feet high. (See cut.) Each, 20c; per dozen, \$2.00.

SALVIA AZUREA

Azurea. Grows two to three feet high and produces pretty sky-blue flowers in great profusion during August and September. Each, 25c; per dozen, \$2.50.

SCABIOSA

- Caucasia.** (Blue Bonnet.) Blooms from June to September, flowers a soft shade of lavender borne on stems 18 to 24 inches high. Each, 25c; per dozen, \$2.50.
- Japonica.** They last a long time when picked and placed in water. Bears lavender-blue flowers on long stems from July to September. Each, 25c; per dozen, \$2.50.

SEDUM (Stone Crop)

- Acre.** (Golden Moss.) Much used for covering graves; foliage green, flowers bright yellow. Each, 20c; per dozen, \$2.00.
- Album.** Green foliage, white flowers. Each, 20c; per dozen, \$2.00.
- Spectabilis.** Erect growing; height 18 inches with broad, light-green foliage and immense heads of handsome, showy, rose colored flowers. Each, 20c; per dozen, \$2.00.
- Spectabilis Brilliant.** Similar in growth to the above with bright, amaranth-red flowers. Each, 20c; per dozen, \$2.00.

SHASTA DAISY

LARGE, snowy-white flowers, in bloom continuously throughout the Summer and Fall.

Alaska. A decided improvement on the original, very free-flowering, with blooms $4\frac{1}{2}$ to 5 inches across, of pure, glistening white. Each, 20c; per dozen, \$2.00.

SPIREA (Goat's Beard, Meadow Sweet)

- Filipendula, fl. pl.** (Double Flowered Drop-wort.) Pretty fern-like foliage, with double white flowers on stems 15 inches high during June and July. Each, 25c; per dozen, \$2.50.
- Palmata Elegans.** Pure white flowers with protruding pink anthers during June and July; 3 feet. Each, 25c; per dozen, \$2.50.
- Arunceus.** Grows 3 to 5 feet high, producing in June and July, long, feathery panicles of white flowers. Each, 25c; per dozen, \$2.50.

STATICE (Great Sea Lavender)

Latifolia. Immense heads, 2 to 3 feet across, small, blue flowers from June to September, which last for months, if cut and dried. Each, 20c; per dozen, \$2.00.

STOKESIA (Cornflower Aster)

Cyanea. Produces showy, aster-like, deep blue flowers which measure from 4 to 5 inches across. 18 to 24 inches high, blooming freely from July until frost. Each, 20c; per dozen, \$2.00.

SWEET WILLIAM (Dianthus Barbatus)

Well known hardy plant. We offer a superb strain of mixed single and double-flowering sorts. Each, 20c; per dozen, \$2.00.

TRITOMA

(Red-hot Poker, Flame Flower or Torch Lily)

Pfitzerii. (The Everblooming Flame Flower.) In bloom from August to November, a rich orange-scarlet producing a grand effect, either planted singly in the border or in masses. Each, 25c; per dozen, \$2.50.

VALERIANA

Coccinea. Showy heads of reddish flowers, blooming from June to October. Height 2 feet. Each, 20c; per dozen, \$2.00.

Officinalis. (Hardy Garden Heliotrope.) Produces showy heads of rose-tinted white flowers during June and July, with strong heliotrope odor. 3 to 4 feet. Each, 20c; per dozen, \$2.00.

VINCA MINOR

(Periwinkle or Trailing Myrtle)

Dwarf evergreen trailing plant, is used for carpeting the ground where it is too shady for other plants to thrive. Each, 20c; per dozen, \$2.00.

We do not guarantee to replace plants, shrubs or trees at prices quoted.



VERONICA (Speedwell)

- Amethystina.** Grows 2 feet high and bears amethyst-blue flowers in June and July. Each, 20c; per doz., \$2.00.
- Incana.** Bright silvery foliage, with spikes of amethyst-blue flowers 1 foot high during July and August. Each, 20c; per dozen, \$2.00.
- Longifolia Subsessilis.** A pretty species with blue flowers, produced on spikes a foot long, continuing in bloom the entire Summer and Fall. Each, 20c; per dozen, \$2.00.
- Spicata.** An elegant border plant, growing about $1\frac{1}{2}$ feet high, producing long spikes of bright blue flowers. Each, 20c; per dozen, \$2.00.
- Virginica.** Long spikes of white flowers in July and August; 3 to 4 feet. Each, 20c; per dozen, \$2.00.

VIOLAS, or TUFTED PANSIES

(Viola Cornuta)

They flower continuously for nearly eight months in the year; and while their flowers are not so large as those of the Pansy, their bright colors make them welcome additions to any garden.

Admiration. Soft purple, with dark blotch.

Lutea Splendens. Rich golden yellow.

Papilio. Violet, with dark eye; the most effective for massing.

White Perfection. A fine white.

Each, 15c; per dozen, \$1.50.

YUCCA FILAMENTOSA (Adams's Needle)

A hardy ornamental foliage and evergreen plant with long, narrow leaves that are bright green the whole year round. The flowers are white, produced on long spikes.

Each, 20c; per dozen, \$2.00.

ORNAMENTAL GRASSES

Arundo Donax. (Great Reed.) An ornamental, giant grass, growing ten to twelve feet high.

Arundo Donax Variegata. A variegated form of the above, growing six to eight feet high.

Erianthus Ravennae. (Plume Grass.) Grows six to eight feet high, and produces plumes in Fall.

Eulalia Gracillima. (Japan Rush.) The most beautiful of all the Eulalias, with narrow, graceful foliage, entirely green without variegation, except that the mid-rib is of a silver sheen.

Eulalia Japonica Variegata. Leaves striped white and green longitudinally.

Eulalia Zebrina. (Zebra Grass.) A peculiar variegated grass, growing six feet high. The variegation is unlike that of any other plant, being across the leaf in regular bands, dark green and light.

Above, each, 25c; per doz., \$2.50; extra by mail, 10c each.

Cannot accept orders for Hardy Perennial plants totaling less than One Dollar.

Ornamental Flowering Shrubs

SHRUBS are as much a part of the garden as the lawn or flower borders, and a well arranged planting presents an attractive appearance throughout the entire year.

Thorough preparation of the soil by spading, and the addition of a liberal quantity of sheep or stable manure or bone meal will be well repaid by strong, vigorous, healthy growth. In planting, care should be taken not to overcrowd, allowing sufficient room for future development, and unless an immediate effect is wanted—in which case they may be planted closer and some of them moved when necessary. The majority of the dwarf-growing kinds may be set about three feet apart, the tall, strong growers about five feet apart.

Our Shrubs are transplanted every two or three years and are furnished with plenty of fibrous roots and should not be compared to stock that is never moved from the cutting beds until sold.

We can furnish Extra Strong Specimen Plants of most all sorts at \$1.00 to \$5.00 each.

We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

We do not guarantee to replace plants, shrubs or trees at prices quoted.

ALTHEA. (Rose of Sharon.) The Altheas are among the most valuable of our hardy shrubs on account of their late season of blooming, which is from August to October. Are also extensively used as hedge plants.

Boule-De-Feu. Double red. Each, 50c; per dozen, \$5.00.

Jeanne D'Arc. Double white. Each, 50c; per dozen, \$5.00.

Meehani. Variegated foliage with satiny, lavender colored, single flowers. Each, 50c; per dozen, \$5.00.

Double Rose, White and Purple.
Three to four feet, each, 50c; per dozen, \$5.00.

BERBERIS THUNBERGII. (Japanese Barberry.) One of the most beautiful shrubs either for hedging or general purposes. It is of a neat, compact growth and the foliage is beautiful at all times; and in the Fall turns to a most brilliant crimson color. The plant is covered with bright scarlet berries all the Fall and Winter. It seldom grows over four feet high.

12 to 18 inches, per dozen, \$1.75; per 100, \$12.00.

18 to 24 inches, per dozen, \$2.40; per 100, \$16.00.

24 to 36 inches, per dozen, \$4.00; per 100, \$25.00.

BUDDLEIA. (Butterfly Shrub or Summer Lilac.) Variabilis Magnifica. Flowers are the shape and color of lilacs. Each, 25c; per dozen, \$2.50; clumps, each, 50c.

CALYCANTHUS FLORIDUS. (Sweet-Scented Shrub.) Flowers fragrant, double and of a chocolate color.

Two to three feet, each, 25c; per dozen, \$2.50.

Three to four feet, each, 50c; per dozen, \$5.00.

CERCIS CANADENSIS. (Judas Tree or Red Bud.) Five to six feet, each, \$1.00; per dozen, \$10.00.

CHIONANTHUS VIRGINICA. (White Fringe Tree.) Two to three feet, each, 50c; per dozen, \$5.00.

CHESTNUT. (Horse Chestnut.) Dwarf. . . Each, \$1.25.

CORCHORUS. (Kerria.) Globe Flower or Japanese Rose. Japonica. Flowers bright yellow, large and showy. Two to three feet. Each, 30c; per dozen, \$3.00.

Japonica Flore Pleno. Double yellow blossoms.

Two to three feet. Each, 30c; per dozen, \$3.00.

Argentea Variegata. A dwarf variety with small green foliage, edged with white. Two to three feet. Each, 30c; per dozen, \$3.00.

CORNUS FLORIDA. (White Flowering Dogwood.) Flowers white and very showy.

Four to five feet. Each, \$1.00; per dozen, \$10.00.

CORNUS MASCULA. (Cornelian Cherry.) Bright yellow flowers.

Two to three feet. Each, 35c; per dozen, \$3.50.

CORYLUS PURPUREA. (Purple Leaved Filbert.) Two to three feet. Each, 60c; per dozen, \$6.00.

DESMODIUM PENDULIFLORUM. Bears during September, sprays of rose-colored flowers.

Three to four feet. Each, 50c; per dozen, \$5.00.

DEUTZIA CRENATA FL. PL. Flowers double white, tinged with pink.

Five to six feet. Each, 50c; per dozen, \$5.00.

DEUTZIA GRACILIS. A dwarf bush, with spikes of pure white flowers. Each, 30c; per dozen, \$3.00.

DEUTZIA LEMOINEI. Habit dwarf, flowers white.

Three to four feet. Each, 50c; per dozen, \$5.00.

DEUTZIA PRIDE OF ROCHESTER. Large double white flowers, slightly tinted with rose.

Three to four feet. Each, 50c; per dozen, \$5.00.

ELDER GOLDEN. (Sambucas.) Golden yellow foliage.

Three to four feet. Each, 50c; per dozen, \$5.00.

ELEAGNUS LONGIPES. Orange-scarlet berries.

Three to four feet. Each, 50c; per dozen, \$5.00.

EUONYMUS EUROPAEUS. (Burning Bush.) Three to four feet. Each, 60c; per dozen, \$6.00.

EXOCHORDA GRANDIFLORA. (Pearl Bush.) White flowers. Three to four feet. Each, 60c; per dozen, \$6.00.

FORSYTHIA FORTUNEI. (Golden Bell.) Upright growth and bright yellow flowers in April.

Three to four feet. Each, 50c; per dozen, \$5.00.

We do not guarantee to replace plants, shrubs or trees at prices quoted.

FORSYTHIA SUSPENS. (Weeping Golden Bell.) Willowy growth and yellow flowers.

Three to four feet. Each, 50c; per dozen, \$5.00.

FORSYTHIA VIRIDISSIMA. (Golden Bell.) Erect growth and spreading branches; flowers bright yellow.

Three to four feet. Each, 50c; per dozen, \$5.00.

HYDRANGEA PANICULATA GRANDIFLORA. The flowers, which are borne in dense pyramidal panicles in the greatest profusion, are white when they first open, but gradually change to rose and remain in good condition for weeks.

Two to three feet. Each, 30c; per dozen, \$3.00.

Three to four feet. Each, 50c; per dozen, \$5.00.

HYDRANGEA PANICULATA GRANDIFLORA. Standard or Tree-Shaped Plants.

Three to four feet. Each, 75c; per dozen, \$7.50.

Four to five feet. Each, \$1.00; per dozen, \$10.00.

LILAC. Purple. (Syringa Vulgaris.) Purple flowers.

White. (Syringa Vulgaris Alba.) White flowers.

Two to three feet. Each, 30c; per dozen, \$3.00.

Three to four feet. Each, 50c; per dozen, \$5.00.

Price of any of the following named Lilacs, fine plants,

Each, \$1.00; extra strong. each, \$1.50.

Charles X. Reddish purple flower.

Ludwig Spaeth. Purplish-red flowers.

Madame Lemoine. Double white flowers.

Marie Legrave. Flowers pure white, extra.

Michael Buchner. Double pale lilac.

LONICERA TARTARICA. (Tartarian Honeysuckle.) Two to three feet. Each, 30c; per dozen, \$3.00.

PHILADELPHUS OR SYRINGA. Grandiflorus. (Large-flowered Mock Orange.) Flowers are pure white and very large.

Five to six feet. Each, 50c; per dozen, \$5.00.

RHODOTYPOS. (White Kerria.) Kerrioides.

Two to three feet. Each, 30c; per dozen, \$3.00.

RHUS COTINUS. (Purple Fringe, or Smoke Tree.) Three to four feet. Each, 50c; per dozen, \$5.00.

RIBES AUREUM. (Golden Currant.) Yellow flowers.

Three to four feet. Each, 50c; per dozen, \$5.00.

SPIREA. Anthony Waterer. Rose red flowers.

12 to 18 inches. Each, 30c; per dozen, \$3.00.

18 to 24 inches. Each, 50c; per dozen, \$5.00.

Callosa Alba. A dwarf, bushy, white flowering variety.

18 to 24 inches. Each, 30c; per dozen, \$3.00.

Van Houttei. (Improved Bridal Wreath.) Clusters of white florets are set close along the drooping stems.

Two to three feet. Each, 25c; per dozen, \$2.50.

Three to four feet. Each, 50c; per dozen, \$5.00.

Reevesii Fl. Pl. Large double, pure white flowers.

Three to four feet. Each, 50c; per dozen, \$5.00.

SYMPHORICARPUS. Vulgaris. (Coral-Berry or Indian Currant.) Two to three feet. Each, 30c.

VIBURNUM. (Snowballs and High Bush Cranberry.)

Opulus. (High Bush Cranberry.) White flowers.

Two to three feet. Each, 30c; per dozen, \$3.00.

Three to four feet. Each, 50c; per dozen, \$5.00.

Opulus Sterilis. (Guelder Rose or Snowball.) Single white flowers.

Three to four feet. Each, 50c; per dozen, \$5.00.

Plicatum. (Japan Snowball.) Pure white flowers.

Two to three feet. Each, 35c; per dozen, \$3.50.

WEIGELIA. Eva Rathke. The finest Weigelia in cultivation. Flowers are a rich, ruby carmine.

18 to 24 inches. Each, 30c; per dozen, \$3.00.

Two to three feet. Each, 50c; per dozen, \$5.00.

Rosea. A beautiful shrub, with rose-colored flowers.

Two to three feet. Each, 30c; per dozen, \$3.00.

Four to five feet. Each, 50c; per dozen, \$5.00.

Rosea Nana Variegata. Flowers delicate rose and pink.

Two to three feet. Each, 50c; per dozen, \$5.00.

ORNAMENTAL TREES

CATALPA BUNGEI. (Umbrella Catalpa.)

Six to seven feet. Each \$1.50. Specimen trees, each \$2.50.

MAPLES, JAPANESE. Polymorphum Atropurpureum.

Leaves deep blood red. Each, \$2.50.

MULBERRY, TEAS, WEEPING. The most graceful hardy weeping tree in existence.

2 to 3 year heads. Each, \$2.50.

HARDY CLIMBING PLANTS

- AMPELOPSIS VEITCHII.** (Japan Creeper or Boston Ivy.) Best climbing plant for covering brick or stone walls.
Each, 25c; per dozen, \$2.50; by mail, each, 30c.
- AMPELOPSIS QUINQUEFOLIA.** (Virginia Creeper.) For covering walls, verandas and trunks of trees.
Each, 25c; per dozen, \$2.50; by mail, each, 30c.
- ARISTOLOCHIA SIPHO.** (Dutchman's Pipe.) Large, heart-shaped leaves.
Each, 50c; per dozen, \$5.00; by mail, each, 60c.
- BIGNONIA RADICANS.** (Trumpet Vine.) Flowers trumpet-shaped, bright scarlet.
Each, 25c; per dozen, \$2.50; by mail, each, 30c.
- CELASTRUS SCANDENS.** (Climbing Bitter Sweet.) Yellow flowers, followed in the Autumn with orange fruit.
Each, 25c; per dozen, \$2.50; by mail, each, 30c.

CLEMATIS (Large Flowering)

- Duchess of Edinburg.** Double white flowers.
Gipsy Queen. Dark purple flowers.
Henryii. Creamy white flowers.
Jackmanii. Intense violet purple flowers.
Seiboldi. Silvery lavender flowers.
Ville de Lyon. Brilliant crimson flowers.
The above named Clematis, each 50c; per dozen, \$5.00; by mail, each, 55c.

CLEMATIS (Small Flowering)

- Coccinea.** Bell-shaped flowers, bright coral red.
Each, 25c; per dozen, \$2.50; by mail, each, 30c.
- Paniculata.** (Japanese Clematis.) Pure white, very fragrant, borne in large clusters; small flowering.
Each, 25c; per dozen, \$2.50; by mail, each, 30c.

HONEYSUCKLES

- Each, 25c; per dozen, \$2.50; by mail, each, 30c.
- Aurea Reticulata.** Foliage variegated yellow and green, with yellowish white, fragrant flowers.
Monthly Fragrant or Dutch. Blooms all Summer.
Common Woodbine. A strong, rapid grower; flowers red outside, buff within.
Halleana. Nearly evergreen; flowers pure white.
Scarlet Trumpet. Scarlet inodorous flowers.
- IVY, English.** Beautiful, evergreen vine.
Each, 25c; per dozen, \$2.50; by mail, each, 30c.
- KUDZU VINE.** (Or Jack-and-the-Bean-Stalk.) A rapid growing vine.
Each, 25c; per dozen, \$2.50; by mail, each, 30c.
- MATRIMONY VINE.** The branches may be trained over fences or trellises.
Each, 25c; per dozen, \$2.50; by mail, each, 30c.
- VITIS HETEROPHYLLA VARIEGATA.** Dark green foliage, variegated with white and pink.
Each, 30c to \$1.00.
- WISTARIA, CHINESE.** Delicate, violet blue blossoms.
Each, 50c; per dozen, \$5.00; by mail, each, 60c.
- WISTARIA, CHINESE, WHITE.** Pure white flowers.
Each, 50c; per dozen, \$5.00; by mail, each, 60c.

TENDER CLIMBING PLANTS

- CARDINAL CLIMBER.** Each, 20c; per dozen, \$2.00.
COBAEA SCANDENS. Each, 25c; per dozen, \$2.50.
MOON FLOWER PLANTS. Each, 20c; per dozen, \$2.00.
If wanted by mail, add 5c each, 50c per doz. for postage.
MADEIRA VINE. Strong tubers.
Each, 5c; per dozen, 40c; by mail, per doz., 50c.

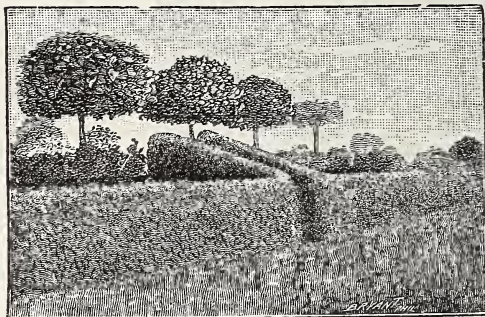
BEDDING PLANTS

These cannot well be mailed, as we send out strong specimens, which travel best by express.

	Each	Per Doz.
Ageratum. Blue.....	10c	\$1.00
Alternanthera. All varieties.....	10c	1.00
Asters. Best varieties, all colors.....	7c	.75
Cannas. Large flowering kinds.....	15c	1.50
Centaurea. (Dusty Miller).....	10c	1.00
Coleus. Standard sorts.....	10c	1.00
Geraniums. Standard sorts.....	15c	1.50
Lantanas.	10c	1.00
Lobelias. Trailing.....	8c	.75
Pansies. Fancy.....	7c	.60
Petunia. Double sorts.....	15c	1.50
Petunia. Single sorts.....	10c	1.00
Salvia. Scarlet varieties.....	15c	1.50
Verbenas. Finest.....	10c	1.00
Vincas. Bedding sorts.....	7c	.75
Vinca. Variegated, trailing.....	25c	2.50

We do not guarantee to replace plants, shrubs or trees at prices quoted.

HEDGE PLANTS



California Privet Hedge

with Catalpa Bungei on Terrace

CALIFORNIA PRIVET. (*Ligustrum Ovalifolium*.) Its foliage is a rich dark-green, and is nearly evergreen, remaining on the plant until mid-winter. It is of free growth and succeeds under the most adverse conditions, such as under dense shade of trees. The most advantageous manner of planting is in double rows, the two rows being about 8 inches apart. The plants should be set 12 to 15 inches apart in the row, alternating the plants. In order to secure a dense hedge from the base up, the plants should be severely pruned the first two seasons.

18 to 24 inches, 75c per dozen; \$4.00 per 100; \$35.00 per 1000.

24 to 36 inches, \$1.00 per dozen; \$6.00 per 100; \$50.00 per 1000.

Extra Large Bushy Plants, \$1.50 per doz.; \$10.00 per 100.

AMOOE RIVER PRIVET, NORTH. (*Ligustrum Amurense*.) This has proven to be a harder variety than the California Privet. When planted for hedges, plants should be set at least one foot apart and closely trimmed each year. Will grow to a height of 15 feet, if not trimmed. We urge its more general use in colder climates and places where an inexpensive shrub is wanted to endure hardships.

12 to 18 inches, \$1.25 per doz.; \$6.50 per 100.

18 to 24 inches, \$1.50 per doz.; \$8.00 per 100.

IBOTA PRIVET. (*Ligustrum Ibotia*.) Japanese Privet. Another hardy variety, bearing numerous long, shiny leaves. It is almost evergreen and grows freely in all soils. Plants should be set one foot apart and kept closely trimmed. If left untrimmed will grow 8 to 12 feet tall. Its pure white flowers appear in June, to be followed later by bluish-black seeds.

12 to 18 inches, \$1.25 per doz.; \$7.00 per 100.

18 to 24 inches, \$1.50 per doz.; \$9.00 per 100.

BERBERIS THUNBERGII. (Japan Barberry.) Where a low, dwarf deciduous hedge is wanted, nothing equals this beautiful Barberry. Requires but little pruning to keep it in shape. The leaves are small, light green, and towards Fall assume rich, brilliant colors, the fruit or berries becoming scarlet. Absolutely hardy in all parts of the country. Plant 12 to 15 inches apart.

12 to 18 inches, per dozen, \$1.75; per 100, \$12.00.

18 to 24 inches, per dozen, \$2.40; per 100, \$16.00.

ALTHEA. (Rose of Sharon.) Few are aware of the strikingly attractive characteristics of this perfectly hardy and profuse flowering shrub, when used as a hedge plant or as a screen. Plant 15 to 18 inches apart.
Each, 25c; per dozen, \$2.50.

SPIREA VAN HOUTTEI. An ideal flowering shrub to use as a dividing line between properties. Plant 18 to 24 inches apart. Each, 25c; per dozen, \$2.50.

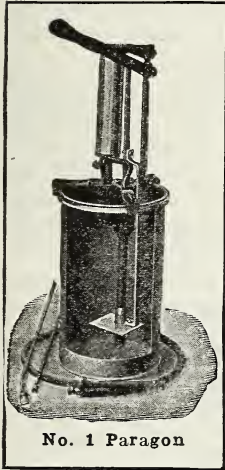
Write for Prices on !

**BOXWOOD AND EVERGREEN TREES,
FRUIT TREES, GRAPE VINES,
SMALL FRUITS, BERRIES, ETC.**

Spraying Pumps and Appliances

SPRAYING is of such importance that the Experiment Stations all over this country have given much of their attention to it, and their findings have been of incalculable value. Diseases and insects can no longer exist if the proper Insecticide is applied through the medium of an up-to-date spray apparatus.

PARAGON SPRAYERS



No. 1 Paragon

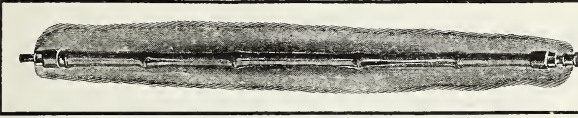
THESE Sprayers are strongly constructed and can be easily operated by one man. Our patented, self-cleaning strainer prevents the necessity of first straining the liquid to be sprayed. The agitator also keeps the liquid thoroughly stirred. The spray nozzle has only $\frac{1}{2}$ -inch outlet and spreads the liquid well. All parts of the machine are made of the best material obtainable.

The reservoir is made of heavy galvanized iron. All essential fittings and valves are made of brass, making it strong and durable. The body of pump is cast iron, well ribbed, to prevent breakage. The screen is of heavy perforated brass and will last many years. The pump frame can easily be removed from tank when it needs cleaning and by running water through machine after using, the entire machinery can be easily and thoroughly cleaned. Suitable for spraying Insecticides and Fungicides on trees, shrubs and vines, as well as the application of Whitewash and Cold Water Paints.

Price List of Paragon Sprayers

- | | |
|---|---|
| No. 1. Capacity, 6 gallons. Equipment, 5 feet 6-ply hose, 5 feet spray pipe, two spray nozzles. Price.....\$15.00. | No. 4. Machine without wheels. Price \$24.00. |
| No. 2. Capacity, 12 gallons. Equipment, 10 feet 6-ply hose, 7 $\frac{1}{2}$ feet spray pipe, two spray nozzles. Mounted on strong steel truck and can easily be wheeled to any desired place. Truck is easily detached when desired. Price.....\$21.00. | No. 5. Capacity, 50 gallons. Equipment, 25 feet 6-ply hose, 10 feet spray pipe, one 3-way spray nozzle, one single spray nozzle. This sprayer has solid cast brass pump and large air chamber. It is positively the very best hand power sprayer made for tree spraying. Price...\$35.00. |
| No. 3. Machine without truck. Price, \$18.00. | Nos. 1 and 3 Sprayers can be furnished with solid all cast brass pumps for additional.....\$5.00. |
| No. 4. Capacity, 28 gallons. Equipment, 20 feet 6-ply hose, 10 feet spray pipe, two spray nozzles. Mounted on two strong 30-inch wheels. Price.....\$28.00. | |

Send for descriptive circular giving detailed information.

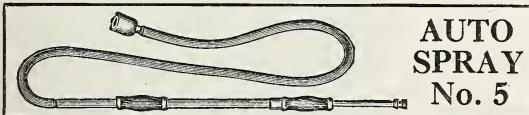


Bamboo Brass Lined Spray Poles

- | | |
|-------------------------------------|-------------------|
| 12-foot lengths..... | net price, \$4.50 |
| 10-foot lengths..... | net price, 4.00 |
| 8-foot iron, wood-encased pipes.... | net price, 1.25 |

MYER'S SPRAY PUMPS

- Myer's Lever Bucket Brass Spray Pump. Complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle.....\$6.00.
- Myer's Defiance Brass Spray Pump. Complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle.....\$6.00.
- Myer's Little Giant Brass Spray Pump. Complete with hose and imperial combination, fine, coarse spray and solid stream nozzle.....\$4.50.
- Myer's Improved Brass Barrel Spray Pump. With fifteen feet of one half-inch discharge hose and Vermorel graduating nozzle.....\$13.00.
- Myer's O. K. Brass Spray Pump. It is fitted for one or two leads of discharge hose. Pump only, without hose or connections.....\$18.00.
- Complete with one lead of fifteen feet discharge hose and graduating Vermorel nozzle.....\$22.50.
- Complete with two leads of fifteen feet each discharge hose and graduating Vermorel nozzles, \$25.00.
- Four-foot Pipe Extension 50c Myer's Power Nozzle, 90c.
- Bordeaux Nozzle.....90c Imperial Nozzle.....50c.
- Vermorel Nozzle.....90c Sprinkling Nozzle.....50c.



AUTO
SPRAY
No. 5

THE pump is made entirely of brass. It has two ball valves so arranged that they may be instantly cleaned. The threads are all cut, not rolled, so that there is no chance for leakage. Pump is double acting and will generate a pressure of 180 lbs.

We furnish with this pump 3 $\frac{1}{4}$ ft. of $\frac{3}{4}$ in. suction hose and a heavy strainer that keeps the hose from working out of a bucket or tank.

The extension is extra and is very useful for spraying field crops. The extension is curved so that the operator can direct the spray up or down while using the pump in a horizontal position. Extension can be used on any of the Auto-Sprayers.

- Auto-Spray No. 5. Pump, hose, nozzle and strainer, complete.....\$5.00.
- Brass Extension, extra., 60c Elbow, extra.....30c.

GOULD'S "BORDEAUX" HAND SPRAYER

THE "Bordeaux" is a brass pump for garden or greenhouse work. It is fitted with brass ball-valves which are proof against the action of acids or oils. The discharge hose is attached to the pump by a brass coupling. No suction hose is needed, as the pump rests in the pail with the malleable iron foothold outside. Equipped with 3 feet of $\frac{3}{4}$ -inch discharge hose and "Seneca" nozzle. Price.....\$5.00.

AUTO COMPRESSED AIR SPRAY

Can be suspended from the shoulder, allowing the free use of the arms. A few strokes of plunger in air chamber will compress enough air to discharge the entire contents. A practical machine for potatoes, tobacco, small fruits, vineyards, poultry houses, green houses, etc. Extension pipes for spraying trees.

Auto Spray No. 1-B. Brass tank, with Auto-Pop Nozzle...\$10.00.

Auto Spray No. 1-D. Galvanized tank, with Auto Pop Nozzle,\$7.50.

Brass Extension. Two feet, per length.....60c.

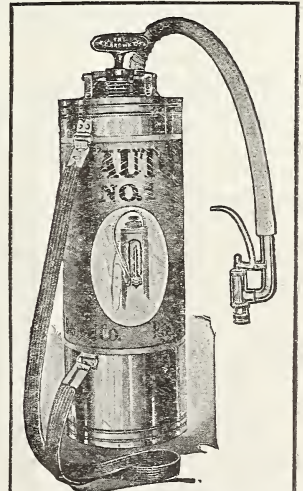
Elbow.....30c.

BRANDT EASY SPRAYER

A compressed air sprayer made of Galvanized Steel. Holds one gallon. Is equipped with automatic shut-off nozzle and is found a very satisfactory sprayer where gardens are not too large.

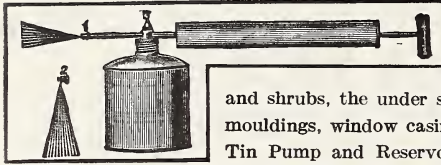
Price, each, \$2.50.

Send for descriptive circulars giving detailed information.



Auto Spray No. 1

SPRAYERS, POWDER DUSTERS, Etc.—Continued



THE ROBERTSON COMPRESSED AIR SPRAYER

They give a continuous spray. By means of the universal nozzle the spray can be thrown on the under side of the leaves of plants and shrubs, the under side of beds and other furniture, into corners, behind doors, on top of mouldings, window casings, behind steam pipes, and other difficult places. Capacity, one quart. Tin Pump and Reservoir, each, 75c. Brass Pump and Reservoir, each, \$1.50.

ACME CONTINUOUS ATOMIZER. Spray produced on both in and out stroke of the plunger. Sprayer fitted with $\frac{1}{8}$ inch brass ball check valve. Capacity, one quart. Galvanized. Price, each, 90c

ACME CYCLONE ATOMIZER. Tank 4 by 5 inches, air chamber 14 $\frac{1}{2}$ inches long, 1 $\frac{1}{4}$ inches in diameter. Capacity, 5 pints. Price, each, 50c

ACME POWDER BELLOWS. Without stooping—the elbow does it—it applies any powdered poison on any plant in any desired quantity. The elbow may be detached, if desired. We also furnish a spreader for distributing the blast. Price, each, \$1.40

DICKEY BUG DEATH DUSTER. Practical and effective; for applying Bug Death Powder. Price, each, 40c

LITTLE GIANT DRY POWDER DUSTER. For Farm, Garden, Vineyard, Tobacco Fields, etc. Machine weighs about six pounds; furnished with three tubes, five nozzles and strap. Distributes any dry powder. Price, each, \$12.00

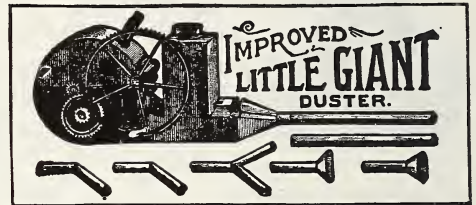
All Prices Subject to Market Changes.

ACME GLASS TANK ATOMIZER. Tank standard quart Mason jar, air chamber 1 $\frac{1}{4}$ inches in diameter, 18 $\frac{1}{2}$ inches long. Price, each, 75c

MIDGET ATOMIZER. A small, compact, Tin Sprayer. Tank, 3 inches in diameter, 3 inches deep. Capacity, 1 pint. Price, each, 35c

ACME FOG ATOMIZER. Strong, durable and satisfactory. Price, each, 50c

WOODASON'S POWDER BELLOWS. Single cone; small, \$2.00; Single cone, large, \$3.00.



INSECTICIDES AND FUNGICIDES

Liquid Insecticides and Poisons cannot be sent by mail.

Ant-i-cide. Useful against ants in lawns, gardens, etc. One pound covers 200 sq. ft. 1 lb. spr. box, 25c.

Aphine. Kills plant lice of every species. This is a contact remedy. $\frac{1}{4}$ pt., 25c; $\frac{1}{2}$ pt., 40c; pt., 65c; qt., \$1.00; gal., \$2.50.

Arsenate of Lead. (Paste.) The most effective poisonous insecticide for leaf eating insects. 1 lb. can, 35c; 5 lbs., \$1.50; 10 lbs., \$2.50; 20 lbs., \$4.50; 50 lbs., \$11.00; 100 lbs., \$20.00.

Arsenate of Lead. (Dry Powdered.) Cannot dry out or deteriorate in any way, even if carried over indefinitely and represents the ideal Arsenate of Lead. $\frac{1}{2}$ lb. pkg., 35c; 1 lb. pkg., 60c; 5 lb. pkg., \$2.50; 10 lb. pkg., \$4.50.

"Black Leaf 40." Soft-bodied, sucking insects may be effectively controlled by spraying with "Black Leaf 40." This is a contact remedy. 1 oz. bottle, 25c; $\frac{1}{2}$ lb. tin, 75c; 2 lb. tin, \$2.50; 10 lb. tin, \$10.75.

Bordeaux Lead Arsenate Mixture. (Paste.) An Insecticide and Fungicide combined in one very effective product. Sticks well to the foliage. 1 lb. can, 35c; 5 lbs., \$1.50; 10 lbs., \$2.50; 25 lbs., \$6.25.

Bordo Lead Dry Insecto. An Insecticide and Fungicide composed of Arsenate of Lead and Bordeaux Mixture in dry powdered form. 1 lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.50.

Bordeaux Mixture. (Paste.) A fungicide for curing and preventing fungoid diseases on plants. 1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.00; 20 lbs., \$3.75; 50 lbs., \$8.25; 100 lbs., \$16.00;

Bordeaux Mixture. (Dry Powdered.) Will not dry out or deteriorate. $\frac{1}{2}$ lb., 25c; 1 lb. can, 40c; 5 lbs., \$1.50; 10 lbs., \$2.50.

Bug Death. A valuable powder for Cucumbers, Egg Plants, Melons, Rose Bushes, Currants and Potatoes. 1 lb., 20c; 3 lbs., 45c; 5 lbs., 70c; 12 $\frac{1}{2}$ lbs., \$1.40.

Cutworm Food. The worm seeks the Food in preference to the plant. 1 lb., 25c; 5 lbs., \$1.00.

Fish Oil Soap. For destroying insects on Plants, Trees, Vines, etc. This is also a contact remedy. 1 lb., 25c; 5 lbs., \$1.10; in bulk, 25 lbs. or over, per lb., 16c.

Fungine. A remedy for mildew, rust and other fungous diseases. $\frac{1}{2}$ pt., 40c; 1 pt., 65c; 1 qt., \$1.00; 1 gal., \$3.50.

Grape Dust. A non-poisonous powder for the remedy and control of mildew and rot on Grapes, Goose-berries, Roses, etc. 1 lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.75.

Hellebore Powder. For destruction of Slugs, Worms, Caterpillars, etc. $\frac{1}{4}$ lb., 20c; $\frac{1}{2}$ lb., 30c; 1 lb., 55c. 5 lbs., \$2.50.

Insect Powder. For Worms, Flies, Aphids and almost all kinds of insects. $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00.

Lime Sulphur Solution. For Fall, Winter and early Spring spray. Destroys San Jose Scale, Peach Leaf Curl, Bud Moth, Apple Aphids, Blister Mite, any Scale Insects or Bark Lice. 1 qt., 40c; $\frac{1}{2}$ gal., 60c; 1 gal., 90c; 5 gals., \$3.00; $\frac{1}{2}$ bbl., (25 gals.) \$8.50; 1 bbl., (50 gals.), \$16.00.

S. W. Dry Lime-Sulphur. Is a combination of Lime and Sulphur which can be used not only as a dormant spray but also as a summer spray in combination with Arsenate of Lead. 1 lb. can, 30c; 5 lb. can, \$1.25; 10 lb. can, \$2.00; 25 lb. can, \$4.00.

Nico-Fume Liquid. For destroying Aphids, Thrips and Red Spider. Contains 40 per cent nicotine. This is a contact remedy. $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50; 4 lbs., \$5.50; 8 lbs., \$10.50.

Nico-Fume Paper. Strips of paper strongly saturated with Nicotine. These, when suspended and lighted, make one of the best and simplest methods of fumigating greenhouses. Price, air-tight cans, 24 sheets, 85c; 144 sheets, \$4.00; 288 sheets, \$7.50.

Paris Green. $\frac{1}{4}$ lb., 20c; 1 lb., 65c; 5 lbs., \$3.00.

Scale Destroyer, Target Brand. This preparation is a soluble, mineral oil, designed especially for destroying and preventing San Jose Scale. 1 qt., 60c; 1 gal., \$1.40; 5 gals., \$5.50; 30 gals., \$25.50; 50 gals., \$39.50.

Scalecide. Used according to directions will kill every San Jose Scale that comes in contact with it. 1 qt., 60c; 1 gal., \$1.40; 5 gals., \$5.50; 30 gals., \$25.50; 50 gals., \$39.50.

Slug Shot. Very effectual in destroying Caterpillars, Currant, Gooseberry and Cabbage Worms, Potato, Melon, Squash and Cucumber Bugs, Rose Slugs, Rose Lice, etc. 1 lb., carton 20c; 5 lbs., 60c; 10 lbs., \$1.15.

Sulphur, Powdered. Used to prevent and cure mildew on plants. 1 lb., 10c; 2 lbs., 15c; 5 lbs., 35c; 10 lbs., 60c.

Sulpho-Tobacco Soap. Destroys Black and Green Aphids, Mealy Bug, Red Spider, etc., on Plants, Shrubs and Trees. This is a contact remedy. 3 oz., cake 10c; (by mail 15c); 8 oz. cake, 20c; (by mail 25c.)

Tobacco Dust. A sure remedy for Green Fly, Aphids, Fleas, Beetles, etc. 1 lb., 10c; 5 lbs., 25c; 100 lbs., \$2.50.

Tobacco Dust for Fumigating. 1 lb., 10c; 3 lbs., 25c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.00.

Tobacco Stems. Used for fumigating plants to kill insects, and as a mulch for roses, asters, lettuce, etc. 1 lb., 5c; bale of about 125 lbs., \$2.00.

Tree Tanglefoot. For protecting trees against climbing insect pests in a simple, economical and effective way. 1 lb., 50c; 3 lbs., \$1.45; 10 lbs., \$4.50; 20 lbs., \$8.75.

Weed Killer, Target Brand. One application will keep paths and roadways free from weeds for an entire season. 1 qt., 65c; 1 gal., \$1.75; 5 gals., \$7.00.

McCullough's High Grade Fertilizers

All Fertilizers Delivered Free on Board Cincinnati. Prices Subject to Change Without Notice.

SHEEP MANURE—Pulverized

THIS is a natural manure; excellent for mixing with the soil. Especially valuable for lawns, contains all the constituents for promoting a quick, luxuriant growth and a rich, green color. Use at the rate of from 500 to 600 pounds per acre. For pot plants, mix one part of sheep manure to six parts of soil. For use in the vegetable garden, spread over the surface and dig in. Being soluble, it readily makes a safe liquid manure—one pound to five gallons of water can be used. 1 lb. carton, 10c; 5 lbs., 25c; 12 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50.

PURE BONE MEAL

THIS is excellent for rose culture and lawns. It decomposes rapidly and is quickly effective. Should be applied at the rate of 400 to 500 lbs. per acre. Analysis: Ammonia, 2%; total phos. acid, 27%. 1 lb., 10c; 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$2.00; per bag of 125 lbs., \$4.00.

VICTORY BRAND

Special Fertilizer for Garden Crops.

RAPID growth, early maturity, superior quality and large yields are essentials in all garden operations. Supply these by using Victory Brand Commercial Fertilizer. Apply at the rate of 200 to 400 lbs. per acre. Analysis: Ammonia, 2%; Total Phosphoric Acid, 10%; Potash (actual), 2%. 1 lb., 10c; 5 lbs., 40c; 12 lbs., 80c; 25 lbs., \$1.50; per bag of 125 lbs., \$5.00.

EV R GREEN LAWN LIME

THE GRASS AND GARDEN TONIC

THIS lime is essentially a plant food, useful for correcting acid soils, also for binding sandy soils and loosening clay soils. Should be applied at the rate of 1,000 to 2,000 lbs. per acre for sandy soils and 2,000 to 3,000 lbs. per acre for clay soils, a few weeks before applying Commercial Fertilizers. Bag of 50 lbs., \$1.00; 2 bags (100 lbs.), \$1.75; 5 bags (250 lbs.), \$4.25; 10 bags (500 lbs.), \$8.00.

NITRAPO

15% Nitrogen—15% Potash. All Available

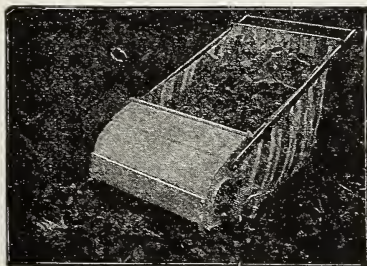
IS CLEAN, sweet, odorless and contains no acids. The cheapest source of supply for Potash on the market. Used for all varieties of cultivated crops, also for Fruit Trees and small Fruits. Apply at the rate of 100 to 200 lbs. per acre, or may be mixed with other Commercial Fertilizers. 1 lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.90; 25 lbs., \$4.00; 100 lbs., \$15.00.

NITRATE OF SODA

CONTAINS about 16% nitrogen, equal to 20% ammonia. We recommend it as the cheapest and best form in which to apply nitrogen to plants. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.10; 25 lbs., \$2.50; 100 lbs., \$8.00.

LAWN REQUISITES

Lawn Cleaner, Pennsylvania



This machine will clean your lawn more thoroughly and quicker than three or four men can do it with hand rakes and greatly benefit the turf—it leaves the grass standing up straight and straightens up crab grass and other running weeds so they will be cut close.

In the autumn it takes up the heaviest fall of leaves. It is made of metal, wood and canvas, and is put together in the most durable and thorough manner. It combines strength and durability with light construction. Price, \$2.00. We can now supply a brush attachment for the purpose of sweeping worm casts on Putting Greens. This attachment can be readily attached to the cleaner in place of the rakes now supplied, at an additional cost of \$5.00.

EV R SWEET

AGRICULTURAL LIMESTONE

Destroys Soil Acidity—Loosens Up Clay Soils—Tightens Up Sandy Soils

PUTS soils in better mechanical condition. Apply at the rate of 2,000 to 4,000 lbs. per acre, and may be applied at any season of the year.

Ev R Sweet contains 87.97% Calcium Carbonate and 7.65% Magnesium Carbonate.

Ev R Sweet is packed in 100 lb. bags.

Per bag of 100 lbs., \$1.25; 10 bags, (1,000 lbs.) \$8.00.

HALF AND HALF

IS especially valuable for Field Crops, Potatoes and Grain. Should be applied at the rate of 400 to 500 lbs. per acre.

Analysis: Ammonia, 2%; total phos. acid, 16%; potash K₂O, 1%.

5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.90; per bag of 125 lbs., \$3.50.

ACID PHOSPHATE 16%

SOME soils contain a large percentage of Nitrogen and some Potash, but still are deficient in Phosphoric Acid.

This must be supplied by the application of 16% Acid Phosphate. Apply from 200 to 400 lbs. per acre. Analysis: Available phos. acid, 16%; insoluble, 1%.

5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; per bag of 125 lbs., \$2.75.

DRIED BLOOD MEAL

THIS is a splendid fertilizer for roses, carnations, chrysanthemums, etc., as well as for pot plants.

1 lb., 15c; 3 lbs., 35c; 25 lbs., \$2.40; 50 lbs., \$4.45; 100 lbs., \$8.35.

LAND PLASTER

IF applied as a top dressing for grass or clover crops in the Spring, it greatly increases the growth and yield of same.

200 lb. bag, \$2.75.

EXCELSIOR PLANT FOOD

For Ferns and Other House Plants

AN odorless preparation, combining in a concentrated and soluble form every element required in plants and flowers to produce vigorous growth and a profusion of flowers. It is immediately soluble in water, and available to plant life from the moment of application. Small package, 10c; medium size package, 20c; large package, 35c.

MOSS, PEAT, ETC.

Moss, Green Sheet. For hanging baskets, etc. Per bale, 40c; bundle of five bales, \$1.50.

Moss, Sphagnum. For packing plants and growing orchids, etc. 1 lb., 10c; 3 lbs., 25c; 7 lbs., 50c.

Peat, Jersey. Per bushel, \$1.50; per bag of two measured bushels, \$2.50.

Potting Soil. Peck, 30c; per bushel, \$1.00.

Lawn, Hay and Garden Rakes

Automatic. Self-cleaning, best hickory, 26 teeth, \$0.75

Lawn Queen. Wire. Is reversible, and can be used for grass or leaves, 24 teeth, .75

Lawn King. Wooden, 20 teeth, .50

Wooden, Hay, .40

Gem Dandelion Rake. For clipping off daisy and dandelion heads, 1.75

Rakes, Steel Garden. 12 teeth, .75

14 teeth, 85c; 16 teeth, .90

CALIFORNIA LAWN SPRINKLER, each, 1.75

RAINFALL LAWN SPRINKLER, each, .25

MARKET GARDENER'S SPRINKLER.

Galvanized Head, each, 1.00

Copper Head, each, 1.25

RING LAWN SPRINKLER, ALLEN'S, each, .75

CRESCENT SPRINKLER, each, .75

SQUARE FOUNTAIN LAWN SPRINKLER, each, .60

UNIT SPRAYER, each, 3.50

HOSE, RUBBER, "Long Run," best hose on the market, finest quality of rubber being used in its manufacture. Will not kink and will last for years.

We can supply in any length. ½ in., per ft., .20

¾ in., per ft., .22

HOSE. For Paragon Spray Pumps, per ft., .20

HOSE REEL. Iron, \$2.50 to \$3.50

HOSE NOZZLE, Graduating, each, .75c

Lawn Mowers

Horse and
Hand Power

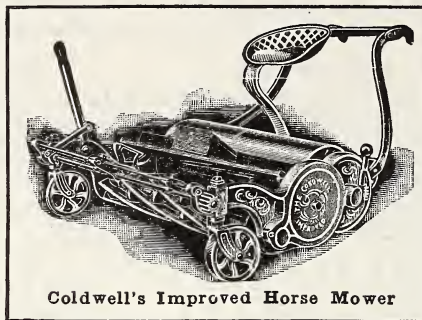
Coldwell's Improved Horse Lawn Mower

THIS well known standard Mower has side draft attachments, to enable the horse to walk on the cut grass only, and caster rollers, which will not mark the lawn. Evenness of cut is assured by an adjustment which raises or lowers the two sides at the same time by means of a simple lever movement; the same lever serves the purpose of raising the knives from the ground when driving over gravel walks or roads. The mowers are fitted up with steel shafting and composition split bushings, and great care is taken to have the workmanship perfect.

These Mowers are made regularly with four blades in the revolving cutter, but when exceptionally fine cutting is desired, such as on golf links and very fine lawns, we can furnish them with six blades.

We positively guarantee these Mowers to give satisfaction.

30-inch, complete with shaft and seat (4 blades)... \$ 85.00
35-inch, complete with shaft and seat (4 blades)... 105.00



Coldwell's Improved Horse Mower

Coldwell's "Rajah" Ball Bearing Lawn Mower

IS STRICTLY high grade ball bearing, and made of first-grade material throughout. It has large drive wheels (10 1/4 inches high), thus insuring lightness of draft. The large diameter five-blade revolving cutter makes it an exceptionally good high-class lawn mower, with a very fine cut. It is provided with flat sliding pawl ratchets. The adjustment of the bearings is accomplished with one screw conveniently located at the end of the revolving cutter, by means of which all wear can be taken up, and a locking screw holds

them securely in place. This mower is furnished with our patent terrace mowing arrangement, reversible channel-shaped bottom knife. It is fully guaranteed in every respect.

14-inch.....\$11.50
16-inch..... 12.75
18-inch..... 14.00
20-inch..... 15.25

Coldwell's Imperial High Wheel Mower

THE workmanship upon it is superior to that of any other make. The joints are closely fitted, insuring a noiseless, light-working and durable machine. It is nicely balanced, enabling the operator to handle it with ease. Furnished with five blades in revolving cutter.

14-inch.....\$11.25
16-inch..... 12.50
18-inch.....\$13.50
20-inch..... 14.50

Suburban Ball Bearing Mower

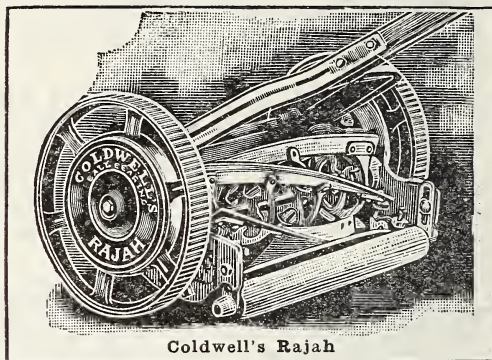
IS MADE to meet the demand for a good ball bearing machine, which can be purchased at a price within the reach of all. It is made throughout of best grade material. The driving wheels are 8 inches in diameter. The revolving cutter has four blades, which insures fineness and evenness of cut. It has sliding pawl ratchets, and the adjustment of both bearings and bottom knife is the simplest and most effective ever made. One screw only is required to adjust the bearings, by means of which all looseness in the revolving cutter bearings can be taken up.

14-inch.....\$6.50
16-inch.....\$7.00

Geared Roller or Golf Mower

THIS Mower is made to meet the demand for a machine that will more perfectly cut borders, edges, etc., and yet retain all the other features necessary in a mower for general work. Coldwell's Roller Mower has brass bushings and triple pawl ratchets. The roller tends to make a smooth and even soil, and rolls down upheavals caused by dampness and worms. Furnished with 6 blades in revolving cutter.

16-inch, with grass box.....\$22.00
18-inch, with grass box..... 24.00



Coldwell's Rajah

Cadet Lawn Mower

IS a good Lawn Mower to sell at a medium low price and I give the purchaser full value for his money.

14-inch.....\$5.50
16-inch.....\$5.75

Coldwell's Lawn Edger

IT IS equipped with fine cut gears, sliding-pawl ratchet, the best tool steel bottom knife and is made to meet the demands of a really first-class lawn trimmer.

Price.....\$7.50

Nox All Grass Catchers

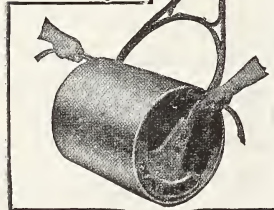
No. 500. Made to fit mower, 12 to 16 inches.....\$1.25
No. 510. Made to fit mower, 16 to 22 inches..... 1.50

DUNHAM WATER WEIGHT LAWN ROLLERS

Dunham Water Weight Rollers are electric welded—no rivets used—the drum cannot possibly leak.

The Dunham Water-Weight Roller can be made as heavy or as light as desired by simply putting in the right amount of water. For storing away or for moving it can be emptied entirely and is light and easy to handle.

The Dunham
Two Section
"Water Weight"
Roller with
counter balancing
handle weights



W. B. Style. Is equipped with a "No-Tip" lock which holds the handle upright when not in use.

W. B. No. 5. 1 section, 24 inches long and 18 inches in diameter. Weight, empty, 85 lbs.; Weight filled with water, 300 lbs.; Weight, filled with sand, 450 lbs. Price...\$13.00

W. B. No. 7. 1 Section, 24 inches long and 24 inches in diameter. Weight, empty, 110 lbs.; Weight, filled with water, 500 lbs.; Weight, filled with sand, 750 lbs. Price...\$17.00

W. B. No. 11. 2 Sections, 24 inches long and 18 inches in diameter. Weight, empty, 110 lbs. Weight, filled with water, 300 lbs. Weight, filled with sand, 450 lbs.....Price, \$18.00

H-W Style is equipped with handle weights which counter-balance the handle.

No. HW-10. 2 Section, 24 inches long and 18 inches in diameter. Weight, empty, 160 lbs. Weight, filled with water, 360 lbs. Weight, filled with sand, 560 lbs..... Price, \$19.50

No. HW-12. 2 Section, 32 inches long and 24 inches in diameter. Weight, empty, 230 lbs. Weight, filled with water, 710 lbs. Weight, filled with sand, 1060 lbs..... Price, \$25.50

Dunham Roller Bearing Lawn Rollers

The rollers are smooth on the face, and finished in aluminum. The outer edges are rounded to avoid cutting the lawn.

	Length	Diam.	Weight	Price
No. 401—2 Section.	16 in.	15 in.	150 lbs.	\$12.00

Horticultural Tools and Sundries

BASKETS, WIRE HANGING.

8-inch.....15c	18-inch.....50c
10-inch.....20c	20-inch.....60c
12-inch.....25c	22-inch.....80c
14-inch.....30c	24-inch.....\$1.00
16-inch.....35c	

BLUE GRASS STRIPPER.....\$1.75

CANES. Six to nine feet long, for plant stakes; per 100.....\$1.75

CANES. Japanese, green dyed, 3 feet long; per 100.....\$1.75

DIBBLE. Iron, with wood handles. For transplanting plants.....50c

EDGING KNIFE. For cutting edges of walks and beds.....75c

DANDELION EXTERMINATOR—LIGHTNING.

The only quick, sure and easy way to rid your lawn of dandelions and keep it free.....\$1.50

FORKS, DIGGING OR SPADING. \$1.35 to \$1.75

FORKS, HAND-WEEDING. Small size, 25c; large size, 40c.

FRUIT PICKER. Made of galvanized steel wire; attaches to pole of any length. Price, without pole, 40c

GARDEN LINE. About 150 feet. \$1.00

GLASS CUTTER, ECLIPSE. The best cheap cutter on the market. Each, 15c; per dozen.....\$1.50

GLAZING POINTS, PEERLESS. Will stop your glass from sliding. Per 1,000

No. 1. For small single-thick glass 75c

No. 2. For large single-thick glass, 75c

No. 2½. For double-thick glass.....75c

GLAZING POINTS, ZINC CITY. Effective on large or small glass; easy to drive, easy to extract. Per lb., 60c

GRASS HOOKS. American.....50c

GRASS HOOKS. English, riveted back.....60c

GRASS SHEARS. American.....75c

GRASS SHEARS. Imported.....\$1.25

GUNS, INSECT POWDER.

CYCLONE.....20c

GUNS, INSECT POWDER.

JUMBO.....35c

HEDGE SHEARS. English, 5-inch, \$1.75; 8-inch, \$2.50; 9-inch, \$2.75.

HOES, GARDEN.

English Suffle or Push. Imported, six inches, without handle.....75c

Standard Socket Garden.....85c

Onion. One end square; opposite end one prong.....40c

Onion. One end square; opposite end two prongs.....50c

Grubbing. With handle.....\$1.00

Sandusky.....85c

HOSE, RUBBER. (See Lawn Re-

quisites.)

KNIVES, PRUNING.....90c to \$1.75

KNIVES, BUDDING.....90c to \$1.50

KNIVES, ASPARAGUS. American. 40c

LABELS, WOOD. For pots, painted.

per 100 per 1000

4 x ¾-inch.....15c \$1.10

5 x ¾-inch.....20c 1.35

6 x ¾-inch.....25c 1.75

8 x ¾-inch.....35c 2.75

10 x ¾-inch.....50c 4.50

12 x 1½-inch.....90c 8.00

LABELS. Tree, notched, copper wired; per 100, 25c; per 1,000, \$2.00

LABELS. Tree, copper, No. 1,

per 100, \$1.50; No. 2, per 100, \$2.00

LAMP, DEFIANCE FUMIGATING.

(For use in greenhouses.)

It burns kerosene. Used by

prominent Market Gardeners all over

the country.

Each, 65c; per dozen, \$6.50.

MASTICA. For glazing green-houses.

One gallon will cover about 300

running feet (one side). One gal-

lon.....\$2.25

MASTICA GLAZING MACHINE.....\$2.25

MATCH PLANT STICKS, painted

green. 12-inch, per 100, 25c; per

1,000, \$2.00; 18-inch, per 100, 30c;

per 1,000, \$2.50.

MATS, HOTBED—Strong Burlap.

Indestructible and warm. Size,

76x76 inches.....\$3.50

MOLE-TRAP, BITTENHOUSE.

The best trap on the market. No

mole can pass under this trap and

live.....90c

OIL, LAWN MOWER. This is a

handy can filled with fine oil. Per

can.....20c

PLANT BED CLOTH. A substitute

for glass, answering many uses

equally well:

Medium Grade, per yard.....25c

Heavy Grade, per yard.....35c

Write for special prices on large lots.

PLANT STAKES, WOOD, painted

green; ¾x¾ inches, 6 feet long.

Each, 10c; per dozen, \$1.00;

per 100, \$7.00.

POTATO HOOKS. 4-tine.....\$1.00

PRUNING KNIVES, TREE—Kan-

sas Improved. Price.....\$3.00

PRUNING KNIVES, TREE—Happy

Thought. Price, 6 ft., \$1.50;

8 ft., \$1.75; 10 ft., \$2.00.

PRUNING KNIVES, TREE—De-

troit. Price, 6 ft., \$1.50; 8 ft.,

\$1.75.

PRUNERS, LITTLE GIANT TREE.

To use on a pole. Price.....\$1.00

WATERS' TREE, with Pole, 8 ft., 80c

PRUNING SHEARS, RED CLIP-

PER. No. 1, \$2.75; No. 2, \$2.50

PRUNING SHEARS, TIP-TOP.....75c

PRUNING SHEARS, ORCHARD

KING. Price.....\$3.00

PRUNING SHEARS, HAND.

California Pattern. 9-inch.....75c

French. 8-inch.....\$1.50

Wiss Heavy. Fine quality, 9-inch 2.75

Ladies' Hand.....1.25

PUTTY, TWEMLOW'S LIQUID

GLAZING. For bedding glass in

sash. One gallon will cover about

600 running feet (one side). Gal-

lon.....\$3.00

PUTTY BULB. A useful tool for

applying liquid putty and glazing

greenhouses.....\$1.10

RAFFIA, NATURAL. The best

tying material for plants, also used

for making hats, baskets, etc.

Per lb., 60c; 4 lbs., \$2.00.

RAFFIA, COLORED. For making

baskets and fancy work in following

colors: Black, Blue, Brown, Green,

Orange, Pink, Red and Yellow.

1 oz., 10c; 1 lb., \$1.00

SAWS, PRUNING. 16-inch, 85c;

18-inch.....\$1.00

SAWS, PRUNING. Double edge.

\$1.00

SASH, HOTBED, UNGLAZED.

Made from strictly clear cypress

lumber. White lead used on the

tendons, and iron dowel pins at the

corners:

No. 1. 3x6 ft., three rows, 10-inch

glass. Each, \$2.25; dozen, \$25.00

No. 2. 4x6 ft., five rows, 8-inch glass.

Each, \$2.50; dozen, \$28.00.

SCYTHES, AMERICAN.....\$1.50

SCYTHES, ENGLISH LAWN. 28

to 36 inches.....\$2.50

SCYTHE SNATHS.....\$1.25

SCYTHE STONES. Carboxite, flat.

30c

SCYTHE STONES, TALACRE.

American round.....25c

SEED SOWER, LITTLE GIANT.

For sowing wheat, oats, rye, flax,

grass seed, clover seed, etc.; in fact

any kind of seed broadcast. It

weighs but three pounds.....\$1.75

SHOVELS, STEEL. Square point.

\$1.50

SHOVELS, STEEL. Round point.

\$1.40

SHOVELS, STEEL. Long handle,

square point.....\$1.50

SHOVELS, STEEL. Long handle,

round point.....\$1.50

SPADES. Steel polished.....\$1.50

SPADES. Ames Steel.....\$1.75

SPADES, NURSERY. Steel, extra

heavy strapped.....\$2.50

SPRINKLER, RUBBER, SCOL-

LAY'S. Indispensable for floral

work and window gardening. Large

size.....\$1.00

THISTLE OR DOCK CUTTER.

Narrow blade, with handle and foot-

rest.....75c

THERMOMETERS,

JAPANNED. Tin Case.

Common Grade 8-in., 20c; 10-in., 25c

Special Grade 8-in., 35c; 10-in., 50c

Medium Grade 8-in., 60c; 10-in., 75c

Standard Grade. Made with season-

ed tubes mounted by clasps on

heavy metal; very accurate.

8-inch, 75c; 10-inch, \$1.00.

Hotbed or Mushroom.....\$2.50

Dairy. 10-inch glasses.....30c

Dairy Standard Grade. Hand grad-

uated and very accurate.....60c

TROWELS.

American. All steel.....25c

Solid Shank. Forged steel.....50c

Steel. 6-inch.....35c

Ordinary. 6-inch.....10c

TROWEL, TRANSPLANTING.

6-inch, 20c; 7-inch, 25c

WATERING POTS, GALVANIZED.

Made from best quality of iron, and

heavily galvanized. Two roses with

each pot for fine and coarse watering.

Long Spout, 4 quart, \$2.50; 6 quart,

\$2.75; 8 quart, \$3.00; 10 quart,

\$3.50; 12 quart, \$3.75.

WAX GRAFTING. ¼ lb., 15c;

½ lb., 20c; 1 lb., 30c.

WEEDERS.

Cleveland Lawn. Removes the

weeds without disturbing the sod, 75c

Carnation.....25c

Magic. 3-prong, single handle.....20c

Excelsior. For weeding seed beds.....15c

Lang's. Allows use of hands.....25c

Christy Garden Weeder.....15c

WIRE FOLDING PLANT STANDS.

The construction of the shelves or

trays is such that there is more

room for the pots and foliage than any

other plant stand that takes the same

amount of room on the floor.

3-Tray Wire Stand—Trays 7½ inches

wide x 30 inches long.....\$3.75

2-Tray Wire Stand—Trays 7½ inches

wide x 30 inches long.....\$2.75

1-Tray Wire Stand—Tray 10 inches

wide x 24 inches long.....\$1.75

WIRE WINDOW SHELF FOR

PLANTS. Strong, compact, with

adjustable steel brackets; can be ap-

plied to any window moulding on

flat part of same. Brackets are con-

structed so as to allow for curtains

between window and plants.

36-inch Shelf, by 7½ inches wide,

with Brackets complete.....\$1.25

42-inch Shelf, by 7½ inches wide,

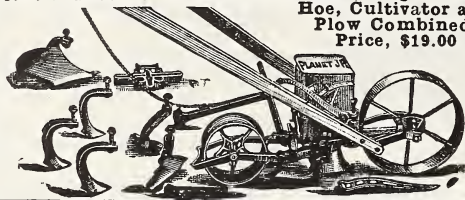
with Brackets complete.....\$1.50

"Planet Jr." Farm AND Garden Tools

PLANET Jr. means on a farm or garden tool, the world over, that it is the latest improved, lightest, strongest, most useful and economical tool of its kind. With Planet Jrs. come less work, bigger crops, more money. The Planet Jr. Catalogue is an instructive handbook of short cuts to best results for farmers and gardeners. It illustrates fifty-five latest improved Planet Jr. tools, showing many in use. Seventy-two helpful pages. Write for it at once!

The Planet Jr. Seed Drills

No. 4. Planet Jr. Hill and Drill Seeder, Single Wheel Hoe, Cultivator and Plow Combined. Price, \$19.00

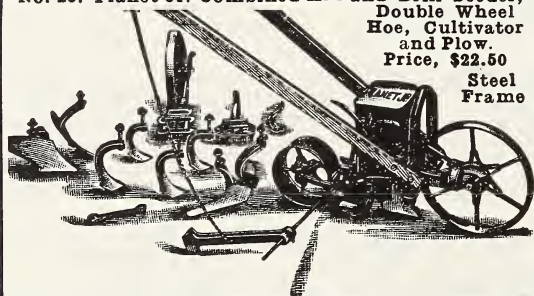


PLANTS all garden seeds accurately in hills, 4, 6, 8, 12 or 24 inches or in drills any thickness. Hoes, cultivates and plows quickly and thoroughly.

No. 4 D. Planet Jr. as a Hill and Drill Seeder only, \$15.00

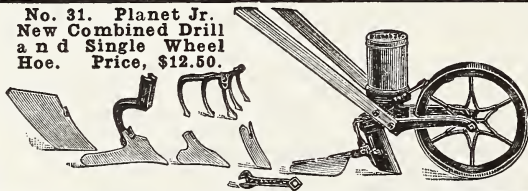
No. 25. Planet Jr. Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow. Price, \$22.50

Steel Frame



THIS combined machine is intended for gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used to good advantage, and yet prefer not to buy seeders and wheel hoes separately.

No. 31. Planet Jr. New Combined Drill and Single Wheel Hoe. Price, \$12.50.

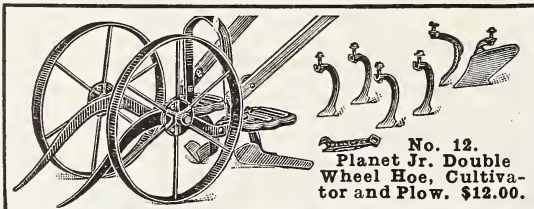


THIS is a new combined tool of great value to thousands of gardeners who have never felt able to own either a seed drill or a wheel hoe. It is thoroughly well made.

No. 31-D. As a Drill Only. Price, \$10.00.

The Planet Jr. Double Wheel Hoes

ARE the greatest cultivating tools for the onion, and for every grower of garden crops from drilled seed. They do more and do it better and easier than can possibly be done in any other way. Works both sides of plants thoroughly and rapidly at one passage until crops are 20 inches high. Indestructible steel frame and steel leaf lifters.

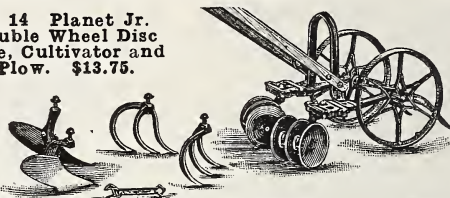


No. 12. Planet Jr. Double Wheel Hoe, Cultivator and Plow. \$12.00.

Equipment: One pair of 6-inch hoes; four steel cultivator teeth; one pair of plows; two leaf lifters.

No. 11. Double Wheel Hoe. Has one pair of 6-inch hoes, one pair 4½-inch hoes, two pairs hollow steel cultivator teeth, one pair plows, two 3-tooth rakes, two 5-tooth rakes and two leaf lifters. Price...\$15.50.

No. 14 Planet Jr. Double Wheel Disc Hoe, Cultivator and Plow. \$13.75.



A NEW TOOL, especially pleasing to all who work peat lands. The set of Prong Cultivator Teeth will be found invaluable in general cultivation.

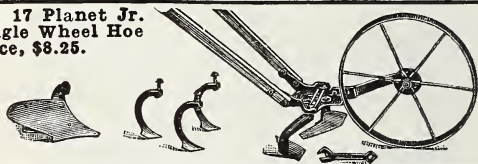
The disc and cultivator teeth attachments will fit the other single and double wheel hoes (except No. 19), and are sold separately.

Discs, per pair	\$3.50
3-Prong Cultivator teeth, per pair	2.00
Double Mouldboard Plows, for Double and Single Wheel Hoes, each	2.00
Plows for Double Wheel Hoes, per pair	1.50
Wheel Hoe Sweep, per set of four, with two standards for Double Wheel Hoe, per set	2.75

Planet Jr. Single Wheel Hoes

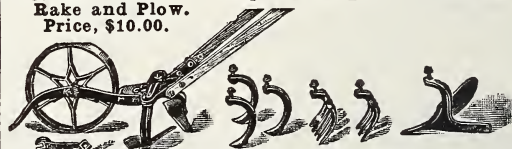
WE offer these Single Wheel Hoes as the highest type of their class. They have a great variety of tools which adapt the implements to a large variety of work, and there is scarcely any garden culture of which they are not capable.

No. 17 Planet Jr. Single Wheel Hoe Price, \$8.25.



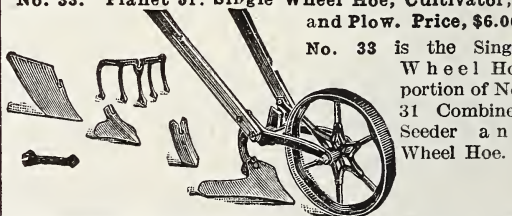
You can do more and better hoeing with it in one day than you can do in three days with a hand hoe.

No. 16. Planet Jr. Single Wheel Hoe, Cultivator, Rake and Plow. Price, \$10.00.



It is light, handy and adapted to almost every garden use. Has leaf guard for close work and lasting steel frame.

No. 33. Planet Jr. Single Wheel Hoe, Cultivator, and Plow. Price, \$6.00.



No. 33 is the Single Wheel Hoe portion of No. 31 Combined Seeder and Wheel Hoe.

No. 19. Single Wheel Hoe	\$5.75
Planet Jr. Grass Edger	8.50

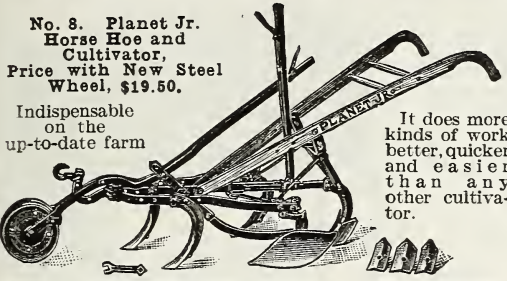
ATTACHMENTS

Steel Cultivator Teeth and Bolt40
Hoes, complete, 4½-inch, per pair	1.20
Hoes, complete, 6-inch, per pair	1.40
Plow for Single Wheel Hoe, each	1.50
Rakes, 3-teeth, 55c; 5-teeth75
Wheel Hoe Sweep, per set of three with standard for Single Wheel Hoe, per set	2.00
Onion Set Harvester, 8-inch size, for onions and onion sets	1.50

THE PLANET JR. ONE-HORSE TOOLS

No. 8. Planet Jr. Horse Hoe and Cultivator. Same as No. 8, without the depth regulator. With new steel wheel. **\$19.50.**

Indispensable on the up-to-date farm




It does more kinds of work better, quicker and easier than any other cultivator.

No. 90. Planet Jr. 12 Tooth Harrow, Cultivator and Pulverizer.
Price, complete, **\$19.50.**

No. 90 B. Without Pulverizer, **\$16.25.**

No. 90 D. Without Pulverizer or Wheel, **\$12.50.**

New Steel Wheel



- No. 7. Planet Jr. Horse Hoe and Cultivator.** Same as No. 8, without the depth regulator. With new steel wheel. **\$18.50.**
- No. 9. Planet Jr. Horse Hoe and Cultivator.** This tool has a plain wheel instead of the lever wheel. With steel wheel. **\$16.75.**
Without wheel. **\$14.50.**
- No. 4. Planet Jr. Plain Cultivator** is equipped with four 3 x 8 in. cultivator steels and one 4 x 8 in. cultivator steel.
Price with new steel wheel. **\$12.00.**

Planet Jr. 12 Tooth Harrow, Cultivator and Pulverizer is invaluable in strawberry and truck patches and the market garden. Its twelve chisel-shaped teeth and pulverizer leave the ground in finest condition without throwing dirt on plants.

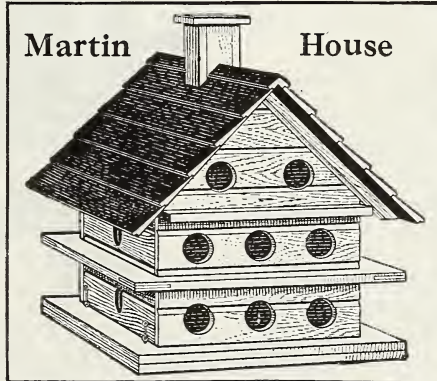
- No. 91. Planet Jr. 12-Tooth Harrow, with Steel Wheel.** **\$14.50.**

A strawberry runner attachment consisting of a 10-inch flat steel disc mounted on an outrigger. Extra. **\$3.00.**

CHICAGO BIRD HOUSES

Wren Houses

- No. 44.** Size 5 3/4 inches wide, 6 inches deep, 5 3/4 inches high, with 1-inch entrance. Price, each, **25c.**
- No. 68.** For Bluebirds, Violet-green Swallows and Tree Swallows. Size 5 3/4 inches wide, 5 3/4 inches deep, 8 1/2 inches high, with 1 1/2 in. entrance. Price, each, **50c.**
- No. 49.** For Chickadees, Tufted Titmice, White-breasted Nuthatches and Downy Woodpeckers. Front, back and bottom 3/8-inch, sides and roof, 1/2-inch thick. Size 4 1/2 inches wide, 5 3/4 inches deep, 10 1/2 inches high, with 1 1/4-inch entrance. Price, each, **50c.**
- No. 59.** For Redheaded Woodpeckers. Golden-fronted Woodpeckers and Flickers. Front, back and bottom 1/2-in. thick. Can easily be cleaned by unscrewing roof. Size 6 1/2 inches wide, 7 1/2 inches deep, 15 1/2 inches high, with 2 1/2-inch entrance. Price, each, **75c.**



Martin House

Martin Houses

Made from clear White Pine lumber. Painted two coats white, with green roof and brick red chimney.

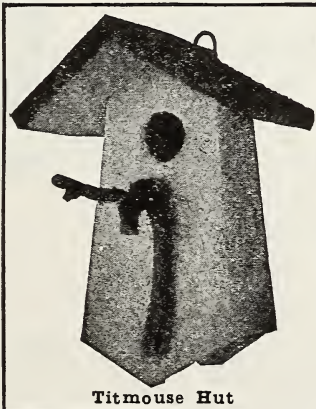
- No. 6.** Has six apartments. Size 20 inches wide, 22 inches deep, 15 1/2 inches high, with 2 1/2-inch entrance. Price, each, **\$5.00.**
- No. 10.** Has ten apartments. Size 20 inches wide, 22 inches deep, 22 1/2 inches high, with 2 1/2-in. entrance. Price, each, **\$7.00.**
- No. 16.** Has sixteen apartments. Size 24 inches wide, 30 inches deep, 21 inches high, with 2 1/2 inch entrance. Price, each, **\$12.50.**
- No. 20.** Has twenty apartments. Size 24 inches wide, 30 inches deep, 25 inches high, with 2 1/2-inch entrance. Price, each, **\$15.00.**

STUCCO BIRD HOUSES

OUR model hut-lets and cabins which we provide are appreciated by all bird lovers.

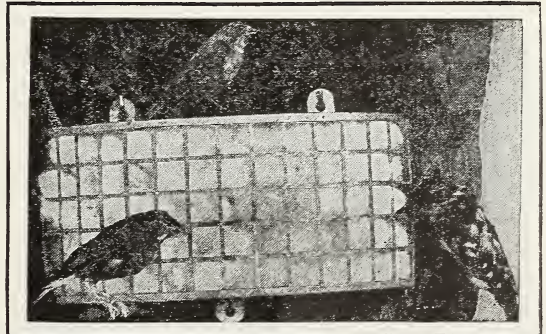
PRICE LIST HUTS AND CABINS

- Each
- Wren Hutlet. **\$1.50**
- Bluebird Hut. **1.75**
- Titmouse. **1.50**
- Bark Hut. **3.00**
- Chickadee Hut **1.50**
- Woodpecker and Flicker Hut. **1.75**
- Martin Houses **\$5.00 to \$50.00**
- Feederies, Large. **\$15.00 to \$35.00**
- Feederies, Small. **\$1.50 to \$2.00**
- Carved and Hewn Hut **\$5.00 to \$25.00**
- Squirrel Cabins. **\$4.00 to \$10.00.**



Titmouse Hut

SUET BASKETS

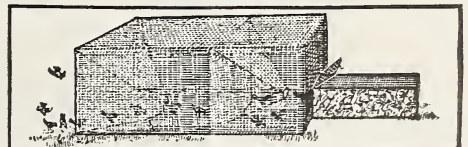


Has a metal back, curved to fit a tree trunk or post that protects the tree from injury. Suet or beef trimmings is the best packing. Place the basket on the shady side in Summer, and the sunny side in Winter. Weight, 2 lbs. Price, each, **75c;** postage extra.

The Dodson Improved Sparrow Trap

The Dodson Sparrow Trap is made of tinned wire, electrically welded, strong and durable—will last for years. It has sharp, adjustable needle points projecting from the mouth of each of the two funnels, which effectively prevent any sparrows from getting out of either the front or second enclosure. Size 36 x 18 x 12 inches.

Price, complete with receiving box. **\$7.00**



Poultry Appliances and Supplies

PRAIRIE STATE SAND TRAY INCUBATORS

If you are in search of the best Incubator manufactured, the one that will hatch the largest number of strong, vigorous chicks, the Prairie State is the machine to buy. Send for Descriptive Catalogue.

THE Prairie State Incubators are built in four sizes, ranging from 100 to 390 eggs. All Prairie States are equipped with Sand Trays, Egg Trays, Nursery Mats, Thermometers, Egg Testers, Lamps and everything complete ready to operate.

Price List of Prairie State Sand Tray Diffusion Incubators.

Standard Series, No. 0, 100 hen eggs; 135 lbs. crated, price.....	\$31.00
Standard Series, No. 1, 150 hen eggs; 160 lbs. crated, price.....	\$39.00
Standard Series, No. 2, 240 hen eggs; 240 lbs. crated, price.....	50.00
Standard Series, No. 3, 390 hen eggs; 325 lbs. crated, price.....	65.00

PRAIRIE STATE "KEYSTONE" SAND TRAY INCUBATORS

THE Keystone Series embody in their construction the three principles characteristic of Prairie State Incubators—top-radiant heat, down draft ventilation, and applied moisture.

No. 0—60 hen eggs; price.....	\$15.00
No. 1—100 hen eggs; price.....	18.50

PRAIRIE STATE STOVE BROODERS

"Senior" Stove Brooder—Weight, 250 lbs.....	\$40.00
"Junior" Stove Brooder—Weight, 115 lbs.....	25.00
"No. 0 Junior" Stove Brooder—Weight, 80 lbs.....	18.00

PRAIRIE STATE PORTABLE HOVERS

No. 1. Capacity, 65 to 100 chicks, weight, 50 lbs. . .	\$18.00
Junior Portable Hover. Capacity, 50 to 75 chicks. .	11.00

PRAIRIE STATE UNIVERSAL HOVERS

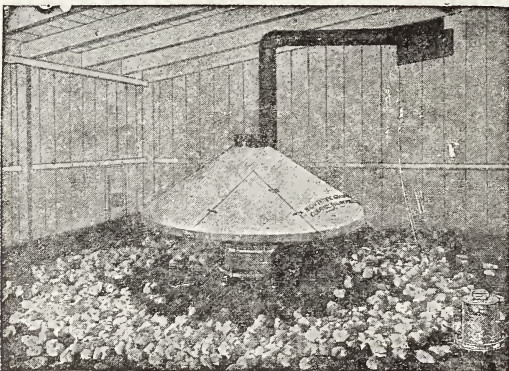
Universal Hover. With lamp case, smoke conductors, lamp, thermometer, and heat regulator.	\$10.00
Universal Hover. With lamp case, smoke conductors, lamp and thermometer.	\$9.00
Universal Hover. With lamp, smoke pipes and thermometer (without lamp case).	\$8.00
When used indoors alone, lamp case is not required.	

PRAIRIE STATE COMBINATION OUTDOOR COLONY BROODERS

No. 1. 3 feet wide, 6 feet long, two compartments. Weight, crated, 300 lbs.	\$30.00
No. 2. 2½ feet wide, 5 feet long, two compartments. Weight, crated, 208 lbs.	\$27.50
No. 3. 27 inches wide, 48 inches long. Weight, crated, 150 lbs.	\$22.00
Heat regulator attached to any of the above brooders, extra.	\$1.25

PRAIRIE STATE INCUBATOR AND BROODER THERMOMETERS

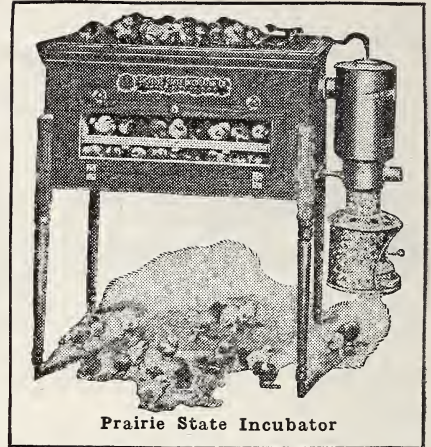
Incubator Thermometer Incline, with holder.	\$1.00
Brooder Thermometer for Prairie State Brooders.	65c



THE NEWTOWN COAL BURNING COLONY BROODER

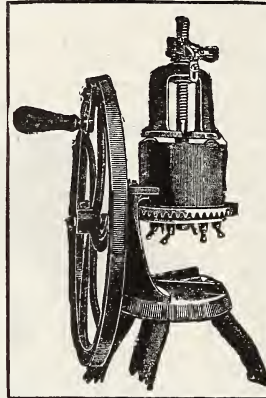
No. 6. Capacity, 200 chicks or less.	\$18.50
No. 7. Capacity, 250 chicks or less.	22.50
No. 10. Capacity, 300 chicks or less.	26.25
No. 11. Capacity, 500 chicks or less.	30.00
No. 12. Capacity, 1200 chicks or less.	38.50

Call on us for detailed particulars, or send for complete Catalogue of Newtown Giant Brooder Stoves, Incubators, Portable Colony Houses, etc.



Prairie State Incubator

MANN'S GREEN BONE CUTTERS



No. 12. Capacity, 150 lbs. per hour. Price.....	\$50.00
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Send for Descriptive Catalogue of Bone Cutters.

"RED CHIEF"

Rapid Grinding Feed and Grist Mill

For Grinding Small Dry Grain

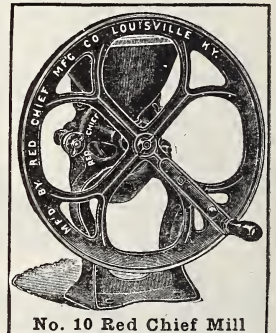
No. 1. Capacity, 1 to 2 bushels per hour. Fitted with crank.	\$3.25
No. 2. Capacity 1 to 1½ bushels per hour.	\$3.50
No. 5. Capacity, 1½ to 2 bushels per hour.	\$6.00
Nos. 1, 2 and 5 Mills, clamp or bolt to box as desired.	

Have hooks on which to hang a bucket.

No. 10. Capacity, 2 to 4 bushels per hour. Fitted with flywheel.	\$7.50
No. 15. Combined Hand and Power Mill. Capacity, 6 to 8 bushels per hour.	\$13.50
No. 20. Power Mill. Capacity, 10 to 20 bushels per hour. Price.....	\$13.00

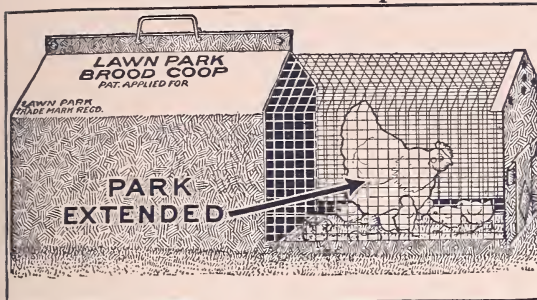
DOUBLE QUICK GRAIN SPROUTER

No. 1. ¼ bushel, 2 trays, 25 to 37 hens, 18x14x23 inches, 25 pounds.	\$ 8.00
No. 2. ½ bushel, 4 trays, 50 to 75 hens, 18x14x30 inches, 35 pounds.	\$ 9.75
No. 3. 1 bushel, 5 trays, 100 to 150 hens, 21x17x40 inches, 55 pounds.	\$15.00
No. 4. 2 bushels, 6 trays, 200 to 300 hens, 25x20x44 inches, 75 pounds.	\$19.75
No. 5. 4 bushels, 12 trays, 400 to 600 hens, 39x25x45 inches, 125 pounds.	\$29.00
No. 6. 8 bushels, 16 trays, 800 to 1,200 hens, 52x27x60 inches, 200 pounds.	\$44.00



No. 10 Red Chief Mill

Lawn Park Coop



Size, closed, 18x24 inches; with park extended, 18x48 inches.
Height, 24 inches. Price.....\$3.75

Egg Boxes

Parcel Post. 1 dozen size, each, 10c; 2 dozen size, each, 15c; 3 dozen size, each, 20c; 4 dozen size, each, 25c; 5 dozen size, each, 30c; 6 dozen size, each, 35c; 10 dozen size, each, 50c.
Eyrle. 15 egg size, each, 20c; 30 egg size, each, 30c.
Paper Carton. 1 dozen size, per dozen, 15c; per 100, \$1.00.
Continental Safety Carton. 1 dozen size, per dozen, 20c; per 100, \$1.25.

Leg Bands

Moe's Key Ring. (Celluloid.) For American and Mediterranean Breeds. 10 colors—black, white, dark blue, pink, light blue, red, garnet, green, yellow, purple. Per dozen, 15c; 25 for 30c; 50 for 50c; 100 for 75c.
Pigeon and Baby Chick Sizes. (Celluloid.) Per dozen, 10c; 25 for 20c; 50 for 35c; 100 for 50c.

Nest Eggs

Lice Expelling. Each, 5c; per dozen, 50c.
Lime. 3 for 10c; per dozen, 30c.

Nests, Poultry and Pigeon

Wire, Hen. Each, 15c; per dozen, \$1.50.
Clay, Pigeon. 8-inch, each, 10c; per dozen, \$1.00.
Indurated Fibre, Pigeon. Each, 30c; per dozen, \$3.00.

UNION LOCK Poultry Fencing

All of the cables are the same length, and run the whole length of the fabric, every part can be stretched perfectly.

12-inch, bale of 10 rods \$1.70 | 36-inch, bale of 10 rods \$3.35
18-inch, bale of 10 rods 2.25 | 48-inch, bale of 10 rods 4.00
24-inch, bale of 10 rods 2.75 | 60-inch, bale of 10 rods 4.55
72-inch, bale of 10 rods...\$5.10

BIRD AND SUNDRY SEEDS

Prices fluctuate considerably throughout the year. The prices now quoted are those ruling as we go to press, and may be higher or lower as the season advances.

	Per lb.		Per lb.		Per lb.
Canary Seed.....	30c	Sunflower Seed.....	15c	Flax Seed.....	15c
Hemp Seed.....	20c	Bird Gravel (3 lbs. pkg.).....	15c	Flax Seed (crushed).....	15c
Lettuce Seed, for birds.....	25c	Cuttle Bone (1 oz. 10c).....	75c	Mustard Seed, white, for pickles.....	40c
Millet, for birds (3 lbs. 25c).....	10c	Black Locust.....	50c	Mustard Seed, black.....	30c
Mixed Bird Seed.....	25c	Honey Locust.....	50c	Pumpkin Seed.....	25c
Rape Seed.....	20c	Celery Seed, for flavoring.....	50c	Watermelon Seed.....	25c

Postage must be added if wanted by mail. See Postal Rates, second page of cover.

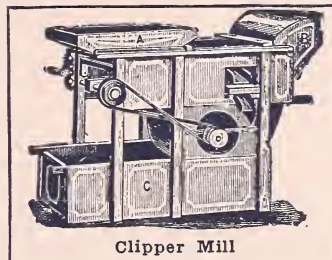
Lack of space prevents us describing the numerous POULTRY APPLIANCES and SUPPLIES we handle. We, however, shall be pleased to quote prices on any sort of equipment desired, also on a full line of Feeds for POULTRY, PIGEONS and BIRDS.

Window Flower Boxes

Made from 1/4 in. white pine lumber, smoothly finished and painted green inside and out. A white pine box will grow finer flowers, last longer and look better than boxes made from any other kind of materials.



	Length	Width	Height	Each Price
No. 246	24 in.	8 in.	6 in.	\$0.75
No. 306	30 in.	8 1/2 in.	6 in.	.85
No. 366	36 in.	8 1/2 in.	6 in.	1.00
No. 426	42 in.	8 1/2 in.	6 in.	1.25
No. 1408	14 in.	14 in.	8 in.	1.25
No. 486	48 in.	8 1/2 in.	6 in.	1.35



Clipper Seed and Grain Mills

These mills are especially adapted for cleaning Grain, Clover and Timothy Seed. Descriptive circulars and prices for Hand and Power Mills sent on application.

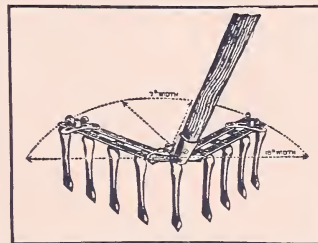
Pull-Easy Hand Cultivators

These tools are designed to save labor, to garden better, and to last longer than the ordinary tools used by most gardeners.

The cultivators can be instantly adjusted by turning thumb screws and moving the swinging arms to any desired angle.

When used with all the teeth in a straight row, this tool not only cultivates but is better than a common rake for preparing the seed bed, because the longer, broader teeth do more thorough work.

9 Tooth Hand Cultivator, each.....\$1.50
No. 4 Jr. Hand Cultivator, each......75



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McCullough's "Profit - Sharing Back-Yard" Collection \$1 Post Paid

Contains 25 full sized packets of the choicest varieties of Vegetable Seeds.



MCCULLOUGH'S "PROFIT-SHARING BACK-YARD" COLLECTION OF GARDEN SEEDS CONTAINS:
 2 varieties of String Beans; 1 Lima Bean; 2 Beet, early and late; 1 Swiss Chard; 1 Cabbage, early; 1 Carrot;
 1 Sugar Corn, early; 1 Cucumber; 1 Kale; 2 Lettuce; 2 Onion, white and yellow; 2 Peas, early and late;
 1 Parsnip; 3 Radish; 1 Spinach; 1 Squash; summer; 1 Tomato; 1 Turnip.

25 PACKETS FOR ONE DOLLAR, POSTPAID



MCCULLOUGH'S EASY-TO-GROW FLOWER SEED COLLECTION CONTAINS: 1 packet each—
 Aster, Alyssum, Balsam, Candytuft, Calliopsis, Marguerite Carnation, Centaurea Cyanus, Cosmos, Cypress
 Vine, China Pinks, Four-O'Clocks, Gaillardia, Kochia, Larkspur, Marigold, Mignonette, Nasturtium—tall,
 Nasturtium—dwarf, Pansy, Petunia, Phlox, Poppy—single, Poppy—double, Portulaca, Zinnia.

25 PACKETS. PRICE \$1.00, POSTPAID

NOTE:—The collections offered on this page are selected from the most popular varieties and are put up in very large quantities as soon as the new seeds are ready and before the Spring rush, otherwise we could not make such offers; owing to this we cannot permit any change in varieties.

(Phone Main 4598)

THE J. M. McCULLOUGH'S SONS CO., 316 Walnut St., Cincinnati, O.

"United States Food Administration, License Number G-18737."